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INTER	RNATIONA	L APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
PCT/A	AU99/0042	0	May 31, 1999	May 29, 1998					
TITLE	OF INVEN	ITION							
METH	OD OF DE	SIGNING AGONISTS AND ANT	AGONISTS TO EGF RECEPTOR FAMILY						
APPLI	ICANT(S) F	FOR DO/EO/US							
Thoma MCKE	as Charles ERN, Herbe	ELLEMAN, Thomas Peter John Cort Rudolf TREUTLEIN, and Colin	GARRETT, Robert Nicholas JORISSEN, Meizhen L Lesley WARD	OU, Antony Wilks BURGESS, Neil Moreton					
Applica		h submits to the United States De	signated/Elected Office (DO/EO/US) the following	items and other information:					
1.	\boxtimes	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.							
2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.							
3.	☒	This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).							
4.	\boxtimes	A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.							
5.		A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. is transmitted herewith (required only if not transmitted by the International Bureau). b. has been transmitted by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US)							
6.		A translation of the International Application into English (35 U.S.C. 371(c)(2)).							
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a.							
8.		A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10.		A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 1	11. to 16. b	elow concern other document(s) or information included:						
11.	\boxtimes	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13.		A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment.							
14.		A substitute specification.							
15.		A change of power of attorney and/or address letter.							
16.	\boxtimes	Other items or information.							
		 International Search Report I International Preliminary Exa Cover Sheet of Published Int 	mination Report						



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c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 500417. A duplicate copy of this sheet is enclosed.									
NOTE: Where an appro	opriate time limit under 3 the application to pendi	87 CFR 1.494 or 1.495 has ng status.	s not been met, a petition	to revive (37 CFR 1.137	(a) or (b)) must be filed				
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Docket No.: 50179-086

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Thomas Charles ELLEMAN, et al.

Serial No.:

Group Art Unit:

Filed: November 29, 2000

Examiner:

For:

METHOD OF DESIGNING AGONISTS AND ANTAGONISTS TO EGF RECEPTOR

FAMILY

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, DC 20231

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

IN THE CLAIMS:

Claim 4, line 1, please change "any one of claims 1 to 3" to --claim 1--.

Claim 5, line 1, please change "any one of claims 1 to 4" to --claim 1--.

Claim 6, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 7, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 8, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 9, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 10, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 11, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 12, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 13, line 1, please change "any one of claims 1 to 5" to --claim 1--.

Claim 15, line 1, please change "anyone of claims 1 to 14" to --claim 1--.

Claim 17, line 1, please change "any one of claims 1 to 16" to --claim 1--.

Claim 18, line 1, please change "any one of claims 1 to 17" to --claim 1--.

Claim 19, line 1, please change "any one of claims 1 to 18" to --claim 1--.

Claim 21, line 1, please delete " or claim 20".

Claim 26, line 1, please delete " or claim 25".

Claim 27, line 1, please change "any one of claims 24 to 26" to --claim 24--.

Claim 30, lines 3 through 4, please change "any one of claims 1 to 29" to --claim 1--.

Claim 34, line 1, please change "any one of claims 1 to 33" to --claim 1--.

Claim 36, line 3, please change "any one of claims 1 to 35" to --claim 1--.

Claim 40, line 1, please change "anyone of claims 37 to 39" to --claim 37--.

Claim 42, line 1, please change "any one of claims 36 to 41" to --claim 36--.

Claim 43, line 1, please change "any one of claims 36 to 41" to --claim 36--.

Claim 44, line 1, please change "any one of claims 36 to 43" to --claim 36--.

Claim 52, line 1, please change "any one of claims 48 to 51" to --claim 48--.

REMARKS

The above-referenced application is amended to delete the multiple dependency of claims 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 17, 18, 19, 21, 26, 27, 30, 34, 36, 40, 42, 43, 44, and 52 to avoid the multiple dependent claim filing fee.

Respectfully submitted,

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Date: November 29, 2000 Facsimile: (202) 756-8087

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METHOD OF DESIGNING AGONISTS AND ANTAGONISTS TO EGF RECEPTOR FAMILY

Field of the Invention

This invention relates to the field of epidermal growth factor (EGF) receptor structure and EGF receptor/ligand interactions. In particular, it relates to the field of using the EGF receptor structure to select and screen for ligands of the EGF receptor.

Background of the Invention

Epidermal growth factor is a small polypeptide cytokine that stimulates marked proliferation of epithelial tissues and is a member of a larger family of structurally related cytokines such as transforming growth factor α (TGFα), amphiregulin, betacellulin, heparin-binding EGF and some viral gene products. Abnormal EGF family signalling is a characteristic of certain cancers (Soler, C. & Carpenter, G., 1994 In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp194-197; Walker, F. & Burgess, A. W., 1994, In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp198-201).

The epidermal growth factor receptor (EGFR) is the cell membrane receptor for EGF (Ullrich, A., and Schlessinger, J. (1990) Cell 61, 203-212). The EGFR also binds other ligands that contain amino acid sequences classified as the EGF-like motif. Among these ligands, the three-dimensional structures of EGF and TGFa have been determined by NMR (Montelione, G.T.; Wuthrich, K.; Nice, E.C., Burgess, A.W. and Scheraga, H.A. (1986) PNAS 83(22): 8594-8; Campbell, I.D., Cooke, R.M., Baron, M., Harvey, T.S., and Tappin, M.J. (1989) Prog. Growth Factor Res. 1, 13-22). Upon binding of the ligand to the extracellular domain, the EGFR undergoes dimerization, which eventually leads to the activation of its cytoplasmic protein tyrosine kinase (Ullrich, A., and Schlessinger, J. (1990) Cell 61, 203-212). The EGFR is also known as the ErbB-1 receptor and belongs to the type I family of receptor tyrosine kinases (Ullrich, A., and Schlessinger, J. (1990) Cell 61, 203-212). This group also includes the ErbB-2, ErbB-3 and ErbB-4 receptors. The ligand of ErbB-2 is still unknown but it is clear that heregulin binds to ErbB-3 and ErbB-4 (Plowman, G.D., Green, J.M., Calouscou, J.M., Carlton, G.W., Rothwell, V.M., and Buckley, S. (1993) Nature 366, 473-475). One of the heregulins is known as neuregulin or NDF and contains an EGF-like sequence that was found to fold into an EGF-like fold by NMR (Nagata, K.,

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Kohda, D., Hatanska, H., Ichikawa, S., Matsuda, S., Yamamoto, T., Suzuki, A., and Inagaki, F. (1994) *EMBO J.* 13, 3517-3523 and Jacobson, N.E., Abadl, N., Sliwkowski, M.X., Reilly, D., Skelton, N.J., and Fairbrother, W.J. (1996) *Biochemistry* 36, 3402-3417).

The type II family of receptor tyrosine kinases consists of the insulin receptor (INSR), the insulin-like growth factor I receptor (IGF-1), and the insulin receptor-related receptor (Ullrich, A., and Schlessinger, J. (1990) Cell 61, 203-212). Although the type II receptors consist of four chains $(\alpha_2\beta_2)$, both the extracellular portions of the receptors from the two families, as well as the tyrosine kinase portions, share significant sequence homology, suggesting a common evolutionary origin (Ullrich, A., and Schlessinger, J. (1990) Cell 61, 203-212, and Bajaj, M., Waterfield, M.D., Schlessinger, J., Taylor, W.R., and Blundell, T. (1987) Biochim. Biophys. Acta 916, 220-226).

The 621 amino acid residues of the extracellular domain of the human EGFR (sEGFR) can be subdivided into four domains as follows: L1, S1, L2 and S2, where L and S stand for "large" and "small" domains, respectively (Bajaj, M., Waterfield, M.D., Schlessinger, J., Taylor, W.R., and Blundell, T. (1987) *Biochim. Biophys. Acta* 916, 220-226, see Fig. 2). The L1 and L2 domains are homologous, as are the S1 and S2 domains.

Ligand-induced dimerization was first reported for the EGF receptor (Schlessinger, J. (1980) Trends Biochem Sci 13, 443-447) and now is widely accepted as a general mechanism for the transmission of growth stimulatory signals across the cell membrane. Although many biochemical experiments have been performed to reveal the molecular mechanism of receptor dimerization (Lemmon, M.A., Bu, Z., Ladbury, J.E., Zhou, M., Pinchasi, D., Lax, L., Engelman, D.M., and Schlessinger, J. (1997) EMBO J. 16, 281-294 and Tzabar, E., Pinkas-Kramarski, R., Moyer, J.D., Klapper, D.N., Alroy, L., Levkowitz, G., Shelly, M., Henis, S., Eisenstein, M., Ratzkin, B.J., Sela, M., Andrews, G.C., and Yarden, Y. (1997) EMBO J. 16, 4938-4950 and Lax, L., Mitra, A.K., Ravern, C., Hurwitz, D.R., Rubinstein, M., Ullrich, A., Stroud, R.M., and Schlessinger, J. (1991), J. Biol. Chem. 266, 13828-13833), the molecular mechanism by which monomeric ligands induce dimerization is still unknown for members of the EGFR family. Single particle averaging of electron microscopic images suggests that the overall shape of the sEGFR is four-lobed and doughnut-like (Lax, L., Mitra, A.K., Ravern, C., Hurwitz, D.R., Rubinstein, M., Ullrich, A., Stroud, R.M., and Schlessinger, J. (1991), J. Biol.

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Chem. 266, 13828-13833). Small angle x-ray scattering also indicates that the sEGFR is a flattened sphere with long diameters of 110 Å and a short diameter of 20 Å (Lemmon, M.A., Bu, Z., Ladbury, J.E., Zhou, M., Pinchasi, D., Lax, L., Engelman, D.M., and Schlessinger, J. (1997) EMBO J. 16, 281-294).
The crystallization of sEGFR in complex with EGF has been published (Günther, N., Betzel, C., and Weber, W. (1990) J. Biol. Chem. 265, 22082-22085; Degenhardt M., Weber W., Eschenburg S., Dierks K., Funari SS., Rapp G. and Betzel C. (1998) Acta Crystallogr. D Biol. Crystallogr. 54:999-1001), but the structure has not yet been reported, despite a decade of effort by many groups.

One EGF receptor ligand, TGF- α has been observed to be overproduced in keratinocyte cells which are subject to psoriasis (Turbitt, M.L. et al., 1990, J. Invest. Dermatol. 95(2), 229-232; Higashimyama, M. et al., 1991, J. Dermatol., 18(2), 117-119; Elder, J.T. et al, 1990, 94(1), 19-25). The overproduction of at least one other EGF receptor ligand, amphiregulin, has also been implicated in psoriasis. (Piepkorn, M. 1996, Am. J. Dermatopath., 18(2), 165-171). Molecules that inhibit the EGF receptor have been shown to inhibit the proliferation of both normal keratinocytes (Dvir, A. et al, 1991, J. Cell Biol., 113(4), 857-865) and psoriatic keratinocytes. (Ben-Bassat, H. et al., 1995, Exp. Dermatol., 4(2), 82-88). These findings indicate that EGF receptor antagonists may be useful in the treatment of psoriasis.

Many cancer cells express constitutively active EGFR (Sandgreen, E. P., et al., 1990, Cell, 61:1121-135; Karnes, W. E. J., et al., 1992, Gastroenterology, 102:474-485) or other EGFR family members (Hynes, N. E.,1993, Semin. Cancer Biol. 4:19-26). Elevated levels of activated EGFR occur in bladder, breast, lung and brain tumours (Harris, A. L., et al., 1989, In Furth & Greaves (eds) The Molecular Diagnostics of human cancer. Cold Spring Harbor Lab. Press, CSH, NY, pp353-357). Antibodies to EGFR can inhibit ligand activation of EGFR (Sato, J. D., et al., 1983 Mol. Biol. Med. 1:511-529) and the growth of many epithelial cell lines (Aboud-Pirak E., et al., 1988, J. Natl Cancer Inst. 85:1327-1331). Patients receiving repeated doses of a humanised chimeric anti-EGFR monoclonal antibody (Mab) showed signs of disease stabilization. The large doses required and the cost of production of humanised Mab is likely to limit the application of this type of therapy. These findings indicate that the development of EGF receptor antagonists will be attractive anticancer agents.

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Summary of the Invention

The present inventors have now obtained three-dimensional structural information concerning the epidermal growth factor receptor (EGFR). This structural information was obtained by comparative modelling based on the three-dimensional structure of the IGF-1 receptor as described in PCT/AU98/00998. The information presented in the present application can be used to predict the structure of related members of the EGF receptor family, and to develop specific ligands of members of the EGF receptor family for therapeutic applications.

Accordingly, in a first aspect the present invention provides a method of designing a compound which binds to a molecule of the EGF receptor family and modulates an activity mediated by the molecule, which method comprises the step of assessing the stereochemical complementarity between the compound and a topographic region of the molecule, wherein the molecule is characterised by

- (i) amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;
- (ii) one or more subsets of said amino acids related to the coordinates shown in Figure 6 by whole body translations and/or rotations; or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.

In a preferred embodiment of the first aspect, the topographic region of the molecule is defined by amino acids 1-475 of the EGF receptor, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.

In a further preferred embodiment of the first aspect, the topographic region of the molecule is defined by amino acids 313-621 of the EGF receptor, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.

The phrase "EGF receptor family" includes, but is not limited to, the EGF receptor, ErbB2, ErbB3 and ErbB4. In general, EGF receptor family

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molecules show similar domain arrangements and share significant sequence identity, preferably at least 40% identity.

The EGF receptor molecule defined in the first aspect of the present invention is depicted in Figure 5. The fragment comprising residues 1-475 of the receptor comprises the L1, S1 and L2 domains of the ectodomain of the EGF receptor. At the centre of this structure is a cavity, bounded by all three domains, of sufficient size to accommodate a ligand molecule.

The fragment comprising residues 313-621 comprises the L2 and S2 domains, which are positioned such that they form a "corner" structure. It is envisaged that this corner structure provides a further binding site for ligands of EGF receptor family members.

By "stereochemical complementarity" we mean that the substance or a portion thereof correlates, in the manner of the classic "lock-and-key" visualisation of ligand-receptor interaction, with the cavity in the receptor site.

In a preferred embodiment of the first aspect of the present invention, the method further involves selecting or designing a compound which has portions that match residues positioned on the surface of the receptor site as depicted in Figures 7, 8 and 9. By "match" we mean that the identified portions interact with the surface residues, for example, via hydrogen bonding or by enthalpy-reducing Van der Waals interactions which promote desolvation of the biologically active compound within the site, in such a way that retention of the compound within the cavity is favoured energetically.

In a further preferred embodiment of the first aspect of the present invention, the method includes screening for, or designing, a compound which possesses a stereochemistry and/or geometry which allows it to interact with both the L1 and L2 domains of the receptor site. It is believed that EGFR monomers may dimerise in nature in such a manner that the cavities of each monomer may face each other. Accordingly, the method of the first aspect of the present invention may involve screening for, or designing, a biologically active compound which interacts with the L1 domain of one monomer and the L2 domain of the other monomer.

In a further preferred embodiment of the first aspect of the present invention the compound interacts with a fragment in the region of the L1 domain-S1 domain interface, causing an alteration in the positions of the

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domains relative to each other. Preferably, the interaction of the compound causes the L1 and S1 domains to move away from each other. In a further preferred embodiment the compound interacts with the hinge region between the S1 domain and the L2 domain causing an alteration in the positions of these domains relative to each other. In a further preferred embodiment the compound interacts with the β sheet of the L1 domain causing an alteration in the position of the L1 domain relative to the position of the S1 domain or L2 domain.

In a further preferred embodiment, the compound binds to a lower face (according to orientations shown in Figures 3 and 4) containing the second β-sheet of the L1 and/or L2 domains, wherein the structure of the face is characterised by a plurality of solvent-exposed hydrophobic residues. Examples of these hydrophobic residues include Tyr64, Leu66, Tyr89, Tyr93 (see Figure 7), Leu348, Phe380 and Phe412 (see Figure 10).

In a further preferred embodiment the compound interacts with the hinge region between the L2 domain and S2 domains, causing an alteration in the positions of the L1 and L2 domains relative to each other. Preferably, the interaction of the compound causes the L1 and L2 domains to move away from each other.

In a further preferred embodiment the compound interacts with the β sheet of the L2 domain causing an alteration in the position of the L2 domain relative to the position of the L1 domain.

In a further preferred embodiment of the present invention, the stereochemical complementarity is such that the compound has a K_d for the receptor site of less than $10^{-6}M$. More preferably, the K_d value is less than $10^{-8}M$ and more preferably less than $10^{-9}M$.

In preferred embodiments of the first aspect of the present invention, the compound is selected or modified from a known compound identified from a data base.

In one embodiment of the first aspect, the compound has the ability to increase an activity mediated by the molecule of the EGF receptor family.

In another embodiment, the compound has the ability to decrease an activity mediated by the molecule of the EGF receptor family. Preferably, the stereochemical interaction between the compound and the receptor site is adapted to prevent the binding of a natural ligand of the molecule of the EGF

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receptor family to the receptor site. Preferably, the compound has a K_I of less than $10^{-6}M$, more preferably less than $10^{-6}M$ and more preferably less than $10^{-6}M$.

In a second aspect the present invention provides computer-assisted method for identifying potential compounds able to bind to a molecule of the EGF receptor family and to modulate an activity mediated by the molecule, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:

- (a) inputting into the programmed computer, through the input device, data comprising the atomic coordinates of the EGF receptor molecule as shown in Figure 6, or a subset thereof;
- (b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to the atomic coordinates of the EGF receptor site as shown in Figure 6, or a subset thereof, thereby generating a criteria data set;
- (c) comparing, using the processor, the criteria data set to a computer database of chemical structures;
- (d) selecting from the database, using computer methods, chemical structures which are similar to a portion of said criteria data set; and
- (e) outputting, to the output device, the selected chemical structures which are similar to a portion of the criteria data set.

In a preferred embodiment of the second aspect, the method is used to identify potential compounds which have the ability to decrease an activity mediated by the receptor.

In a further preferred embodiment of the second aspect, the method further comprises the step of selecting one or more chemical structures from step (e) which interact with the receptor site of the molecule in a manner which prevents the binding of natural ligands to the receptor site.

In a further preferred embodiment of the second aspect, the method further comprises the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the receptor.

In a further preferred embodiment of the second aspect, the method is used to identify potential compounds which have the ability to increase an activity mediated by the receptor molecule.

In a further preferred embodiment of the second aspect, the method further comprises the step of obtaining a molecule with a chemical structure

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' selected in steps (d) and (e), and testing the compound for the ability to increase an activity mediated by the receptor molecule.

The present invention also provides a method of screening of a putative compound having the ability to modulate the activity of a molecule of the EGF receptor family, comprising the steps of identifying a putative compound by a method according to the first or second aspects, and testing the compound for the ability to increase or decrease an activity mediated by the molecule. In one embodiment, the test is carried out *in vitro*. Preferably, the *in vitro* test is a high throughput assay. In another embodiment, the test is carried out *in vivo*.

In a third aspect the present invention provides a compound able to bind to a molecule of the EGF receptor family and to modulate an activity mediated by the molecule, the compound being obtained by a method according to the present invention.

In a preferred embodiment of the third aspect, the compound is a mutant ligand of a molecule of the EGF receptor family, where at least one mutation occurs in the region of the ligand which interacts with residues on the surface of the receptor site facing toward the cavity. For example, the residues Arg 41 and Tyr 13 in EGF are conserved in other members of the EGF receptor family of ligands (a Phe residue may be substituted for Tyr 13). Structures of several EGF family members show the two residues to be in close proximity (Groenen, L.C., Nice, E.C., Burgess, A.W., 1994, Growth Factors 11:235-257). This portion of EGF may interact with a hydrophobic portion of the EGF receptor which contains one or more negatively charged residues such as the lower β sheet of the L1 domain. Mutants of EGF which show altered activity may be generated by introducing modifications to Arg 41 or Tyr 13 or other nearby residues. Alternatively, mutants of EGF may be generated by introducing modifications to residues on the opposite side of the ligand which may interact with a second receptor molecule in the unmodified ligand.

In a fourth aspect the present invention provides a compound which possesses stereochemical complementarity to a topographic region of a molecule of the EGF receptor family and modulates an activity mediated by the molecule, wherein the molecule is characterised by

(i) amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;

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- (ii) one or more subsets of said amino acids related to the coordinates shown in Figure 6 by whole body translations and/or rotations; or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;

with the proviso that the compound is not a naturally occurring ligand of a molecule of the EGF receptor family or a mutant thereof.

By "mutant" we mean a ligand which has been modified by one or more point mutations, insertions of amino acids or deletions of amino acids.

In a preferred embodiment of the fourth aspect, the topographic region of the molecule is defined by amino acids 1-475 of the EGF receptor or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.

In a further preferred embodiment of the fourth aspect, the topographic region of the molecule is defined by amino acids 313-621 of the EGF receptor or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.

In preferred embodiments of the third and fourth aspects, the stereochemical complementarity between the compound and the receptor site is such that the compound has a K_d for the receptor site of less than $10^{-6}M$, more preferably less than $10^{-8}M$.

In some embodiments of the third and fourth aspects, the compound increases an activity mediated by the EGF receptor.

In other embodiments of the third and fourth aspects, the compound decreases an activity mediated by the EGF receptor.

In a fifth aspect, the present invention provides a pharmaceutical composition for preventing or treating a disease which would benefit from increased signalling by a molecule of the EGF receptor family, which comprises a compound according to the third or fourth aspects of the present invention and a pharmaceutically acceptable carrier or diluent.

In a sixth aspect, the present invention provides a pharmaceutical composition for preventing or treating a disease associated with signalling by a molecule of the EGF receptor family which comprises a compound

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according to the third or fourth aspects of the present invention and a pharmaceutically acceptable carrier or diluent.

In a seventh aspect the present invention provides a method of preventing or treating a disease which would benefit from increased signalling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound according to the third or fourth aspects of the present invention. Preferably, the disease is selected from wound healing and gastric ulcers.

In an eighth aspect the present invention provides a method of preventing or treating a disease associated with signalling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound according to the third or fourth aspects of the present invention. Preferably, the disease is selected from psoriasis and tumour states comprising but not restricted to cancer of the breast, brain, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma and glioblastoma.

Throughout this specification, the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

Brief Description of the Drawings

- Figure 1: Sequence alignment of human EGF receptor family proteins with IGF-1 receptor sequences and insulin receptor sequence for the first two domains of the EGF receptor. The alignment of the EGF receptor and the various IGF-1 receptor sequences were used by the MODELLER program to create a model of the EGF receptor domains L1 and S1. Residues which are underlined were used to create additional Cα-Cα restraints for the construction of the EGF receptor model. Disulfide bonds are also indicated by lines between cysteine residues. The modules of the EGF receptor S1 domain are numbered.
- Figure 2: Sequence alignment of human EGF receptor family proteins with IGF-1 receptor sequences and insulin receptor sequence for the third and

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fourth domains of the EGF receptor. Additional labels and lines are similar to those in figure 1.

Figure 3: Model polypeptide fold of the L1 and S1 domains of the EGF receptor. The L1 is at the left hand side of the structure with the N-terminus facing the front. Cysteine residue sidechains are depicted as sticks.

Figure 4: Model polypeptide fold of the L2 and S2 domains of the EGF receptor. The L2 is at the bottom of the structure with the N-terminus facing the front. Cysteine residue sidechains are depicted as sticks.

Figure 5: Superposition of the two models (of the L1 and S1 domain and of L2 and S2 domains) onto the structure of the first three domains of the IGF-1 receptor. Cysteine residue sidechains are depicted as sticks. Selected residues are shown as spheres and labelled.

Figure 6: Coordinates of the two models of the EGF receptor extracellular domain. The first model consists of the domains L1 and S1. The second model consists of the domains L2 and S2. The coordinates are in relation to a Cartesian set of orthogonal axes. The L1, S1 and L2 domains of the EGF receptor models have been superimposed on the crystal structure of the IGF-1 receptor domains L1, cysteine-rich domain and L2. The final column contains the number 20, 40 or 60, depending on whether the residue containing the atom is judged to be well-modelled, have a moderate possibility of error, or is likely to be inaccurate, respectively.

Figure 7: Part of the model polypeptide fold of the L1 and S1 domains of the EGF receptor. Side chains of residues from the L1 domain which face towards the large cavity (shown in Figure 5) are shown in ball and stick notation and labelled with residue number and the one letter code.

Figure 8: Part of the model polypeptide fold of the L1 and S1 domains of the EGF receptor. Side chains of residues from the S1 domain which face towards the large cavity (shown in Figure 5) are shown in ball and stick notation and labelled using the one letter code.

Figure 9: Part of the model polypeptide fold of the L2 and S2 domains of the EGF receptor. Side chains of residues from the L2 domain which face towards the large cavity (shown in Figure 5) are shown in ball and stick notation and labelled using the one letter code.

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Figure 10: Part of the model polypeptide fold of the L2 and S2 domains of the EGF receptor. Solvent exposed residues from the face of the L2 domain containing the large β sheet are shown in ball and stick representation.

10 Detailed description of Preferred Embodiments of the Invention

The present inventors have developed three dimensional structural information about the EGF receptor to enable a more accurate understanding of how the binding of ligand leads to signal transduction. Such information provides a rational basis for the development of ligands for specific therapeutic applications, something that heretofore could not have been predicted *de novo* from available sequence data.

The precise mechanisms underlying the binding of agonists and antagonists to the EGF receptor are not fully clarified. However, the binding of ligands to the receptor site, preferably with an affinity in the order of 10⁻⁸M or higher, is understood to arise from enhanced stereochemical complementarity relative to naturally occurring EGF receptor ligands.

Such stereochemical complementarity, pursuant to the present invention, is characteristic of a molecule that matches intra-site surface residues lining the groove of the receptor site as enumerated by the coordinates set out in Figure 6. The residues lining the groove are depicted in Figures 7, 8 and 9. By "match" we mean that the identified portions interact with the surface residues, for example, via hydrogen bonding or by enthalpy-reducing Van der Waals interactions which promote desolvation of the biologically active compound within the site, in such a way that retention of the biologically active compound within the groove is favoured energetically.

Substances which are complementary to the shape of the receptor site characterised by amino acids positioned at atomic coordinates set out in Figure 6 may be able to bind to the receptor site and, when the binding is sufficiently strong, substantially prohibit binding of the naturally occurring ligands to the site.

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It will be appreciated that it is not necessary that the complementarity between ligands and the receptor site extend over all residues lining the groove in order to inhibit binding of the natural ligand. Accordingly, agonists or antagonists which bind to a portion of the residues lining the groove are encompassed by the present invention.

In general, the design of a molecule possessing stereochemical complementarity can be accomplished by means of techniques that optimize, either chemically or geometrically, the "fit" between a molecule and a target receptor. Known techniques of this sort are reviewed by Sheridan and Venkataraghavan, Acc. Chem Res. 1987 20 322; Goodford, J. Med. Chem. 1984 27 557; Beddell, Chem. Soc. Reviews 1985, 279; Hol, Angew. Chem. 1986 25 767 and Verlinde C.L.M.J & Hol, W.G.J. Structure 1994, 2, 577, the respective contents of which are hereby incorporated by reference. See also Blundell et al., Nature 1987 326 347 (drug development based on information regarding receptor structure).

Thus, there are two preferred approaches to designing a molecule, according to the present invention, that complements the shape of the EGF receptor. By the geometric approach, the number of internal degrees of freedom (and the corresponding local minima in the molecular conformation space) is reduced by considering only the geometric (hard-sphere) interactions of two rigid bodies, where one body (the active site) contains "pockets" or "grooves" that form binding sites for the second body (the complementing molecule, as ligand). The second preferred approach entails an assessment of the interaction of respective chemical groups ("probes") with the active site at sample positions within and around the site, resulting in an array of energy values from which three-dimensional contour surfaces at selected energy levels can be generated.

The geometric approach is illustrated by Kuntz et al., J. Mol. Biol. 1982 161 269, the contents of which are hereby incorporated by reference, whose algorithm for ligand design is implemented in a commercial software package distributed by the Regents of the University of California and further described in a document, provided by the distributor, which is entitled "Overview of the DOCK Package, Version 1.0,", the contents of which are hereby incorporated by reference. Pursuant to the Kuntz algorithm, the shape of the cavity represented by the EGF receptor site is defined as a series of overlapping spheres of different radii. One or more extant databases of

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crystallographic data, such as the Cambridge Structural Database System maintained by Cambridge University (University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, U.K.) and the Protein Data Bank maintained by Brookhaven National Laboratory (Chemistry Dept. Upton, NY 11973, U.S.A.), is then searched for molecules which approximate the shape thus defined.

Molecules identified in this way, on the basis of geometric parameters, can then be modified to satisfy criteria associated with chemical complementarity, such as hydrogen bonding, ionic interactions and Van der Waals interactions.

The chemical-probe approach to ligand design is described, for example, by Goodford, J. Med. Chem. 1985 <u>28</u> 849, the contents of which are hereby incorporated by reference, and is implemented in several commercial software packages, such as GRID (product of Molecular Discovery Ltd., West Way House, Elms Parade, Oxford OX2 9LL, U.K.). Pursuant to this approach, the chemical prerequisites for a site-complementing molecule are identified at the outset, by probing the active site (as represented via the atomic coordinates shown in Fig. 1) with different chemical probes, e.g., water, a methyl group, an amine nitrogen, a carboxyl oxygen, and a hydroxyl. Favored sites for interaction between the active site and each probe are thus determined, and from the resulting three-dimensional pattern of such sites a putative complementary molecule can be generated.

Programs suitable for searching three-dimensional databases to identify molecules bearing a desired pharmacophore include: MACCS-3D and ISIS/3D (Molecular Design Ltd., San Leandro, CA), ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.), and Sybyl/3DB Unity (Tripos Associates, St. Louis, MO).

Programs suitable for pharmacophore selection and design include: DISCO (Abbott Laboratories, Abbott Park, IL), Catalyst (Bio-CAD Corp., Mountain View, CA), and ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.).

Databases of chemical structures are available from a number of sources including Cambridge Crystallographic Data Centre (Cambridge, U.K.) and Chemical Abstracts Service (Columbus, OH).

De novo design programs include Ludi (Biosym Technologies Inc., San Diego, CA), Sybyl (Tripos Associates) and Aladdin (Daylight Chemical Information Systems, Irvine, CA).

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Those skilled in the art will recognize that the design of a mimetic may require slight structural alteration or adjustment of a chemical structure designed or identified using the methods of the invention.

The invention may be implemented in hardware or software, or a combination of both. However, preferably, the invention is implemented in computer programs executing on programmable computers each comprising a processor, a data storage system (including volatile and non-volatile memory and/or storage elements), at least one input device, and at least one output device. Program code is applied to input data to perform the functions described above and generate output information. The output information is applied to one or more output devices, in known fashion. The computer may be, for example, a personal computer, microcomputer, or workstation of conventional design.

Each program is preferably implemented in a high level procedural or object-oriented programming language to communicate with a computer system. However, the programs can be implemented in assembly or machine language, if desired. In any case, the language may be compiled or interpreted language.

Each such computer program is preferably stored on a storage medium or device (e.g., ROM or magnetic diskette) readable by a general or special purpose programmable computer, for configuring and operating the computer when the storage media or device is read by the computer to perform the procedures described herein. The inventive system may also be considered to be implemented as a computer-readable storage medium, configured with a computer program, where the storage medium so configured causes a computer to operate in a specific and predefined manner to perform the functions described herein.

Compounds designed according to the methods of the present invention may be assessed by a number of *in vitro* and *in vivo* assays of hormone function. For example, the identification of EGF receptor antagonists of may be undertaken using a solid-phase receptor binding assay. Potential antagonists may be screened for their ability to inhibit the binding of europium-labelled EGF receptor ligands to soluble, recombinant EGF receptor in a microplate-based format. Europium is a lanthanide fluorophore, the presence of which can be measured using time-resolved fluorometry. The sensitivity of this assay matches that achieved by radioisotopes,

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measurement is rapid and is performed in a microplate format to allow high-sample throughput, and the approach is gaining wide acceptance as the method of choice in the development of screens for receptor agonists/antagonists (see Apell et.al. J. Biomolec. Screening 3:19-27, 1998: Inglese et. al. Biochemistry 37:2372-2377, 1998).

Binding affinity and inhibitor potency may be measured for candidate inhibitors using biosensor technology.

The EGF receptor antagonists may be tested for their ability to modulate receptor activity using a cell-based assay incorporating a stably transfected, EGF-responsive reporter gene (Souriau, C., Fort, P., Roux, P., Hartley, O., Lefranc, M-P., Weill, M., 1997, Nucleic Acids Res. 25:1585-1590). The assay addresses the ability of EGF to activate the reporter gene in the presence of novel ligands. It offers a rapid (results within 6-8 hours of hormone exposure), high-throughput (assay can be conducted in a 96-well format for automated counting) analysis using an extremely sensitive detection system (chemiluminescence). Once candidate compounds have been identified, their ability to antagonise signal transduction via the EGF-R can be assessed using a number of routine in vitro cellular assays such as inhibition of EGF-mediated cell proliferation. Ultimately, the efficiency of antagonist as a tumour therapeutic may be tested in vitro in animals beating tumour isografts and xenografts as described (Rockwell, P., O'Connor, W.J., King, K., Goldstein, N.I., Zhang, L.M., Stein, C.A., 1997, Proc Natl Acad Sci U S A 94:6523-6528; Prewett, M., Rothman, M., Waksal, H., Feldman, M., Bander, N.H., Hicklin, D.J., 1998 Clin Cancer Res 4:2957-2966).

Tumour growth inhibition assays may be designed around a nude mouse xenograft model using a range of cell lines. The effects of the receptor antagonists and inhibitors may be tested on the growth of subcutaneous tumours.

Comparative modelling

The comparative modelling method exploits the observation that proteins with more than 25% amino acid identity will almost always have a similar protein backbone (Sander, C. And Schneider, R., 1991, Proteins: Structure Function and Genetics, 9, 56-68). In some cases, proteins will have similar backbone structures with a lower proportion of identical amino acids. By aligning the sequence of a (target) protein which is to be modelled with the sequences with known structures (the templates), a model of the protein

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can be obtained. Where a region of the target sequence follows the sequences of a template, the backbone of the target is built to follow that of the template. Where the target sequence can not be aligned to a target sequence, the so-called insertion must be constructed by other means (Greer, J., 1991, Meth. Enzym. pp 239-252).

The MODELLER program (Šali, A and Blundell, T.L., 1993, J. Mol. Biol. 234, 779-815) is a semi-automated approach to building models of proteins given the structures of one or more template structures and an alignment between the sequences of the target protein and the templates. Based on the sequence alignment and a set of rules derived from the analysis of sets of aligned structure, the program generates a series of restraints for variables such as $C\alpha$ - $C\alpha$ distances, main chain and side chain dihedral angles for the target structure. The restraints are expressed in terms of probability density functions (PDFs). The PDFs are combined to yield an expression for the most probable structure as a function of the variables ($C\alpha$ - $C\alpha$ distances etc). The program then attempts to find structures to maximise the value of this function. In effect, the program attempts to minimise a transformed version of this function.

While some comparative modelling approaches involve the explicit building of regions of the model for which there is no sequence alignment with a template, the MODELLER program constructs PDFs for these regions, thus including them in the consideration of constructing a comparative model. It is conceivable that once a comparative model has been constructed using MODELLER than an algorithm to build the structures of these regions is applied.

The MODELLER program was used to build the structures of the extracellular portion of the EGF receptor using the 3D structure of the IGF-1 receptor (as described in PCT/AU98/00998) as a template. The description of the generation of these models is outlined below.

30 Construction of the alignment

The region of the IGF-1 receptor whose structure is known (Garrett, T.P., McKern, N.M., Lou, M., Frenkel, M.J., Bentley, J.D., Lovrecz, G.O., Elleman, T.C., Cosgrove, L.J., Ward, C.W., 1998 Nature 394:395-399) consists of three domains, the L1 domain, cysteine-rich domain (CRD) and the L2 domain (in order of increasing residue number). The L1 and L2 domains adopt similar folds, each consisting of a single-stranded right-hand β -helix.

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The helix contains three β -sheets which make up the left and right sides and the bottom of the β -helix. The top is less regular. This type of β -helix has been dubbed a "breadloaf". The cysteine-rich domain (CRD) consists of eight small modules, each of which has one or two disulfide bonds. The first three modules of the CRD contain two disulfide bonds which have a Cys1-Cys3 and Cys2-Cys4 disulfide pairing arrangement. The next four have a single disulfide bond with a so-called β -finger structure. The eighth module of the CRD contains one disulfide bond but is not a β -finger.

The sequence of the EGF receptor extracellular domain can be divided into four domains, L1, S1, L2 and S2 (in order of increasing residue number) on the basis of internal homology and homology with the insulin receptor family (Ward, C.W., Hoyne, P.A., Flegg, R.H., 1995, Proteins 22:141-153; Bajaj, M., Waterfield, M.D., Schlessinger, J., Taylor, W.R., Blundell, T., 1987, Biochim Biophys Acta 916:220-226). The L1 and L2 domains are similar in sequence to each other and to the L1 and L2 domains in the IGF-1 receptor. The S1 and S2 domains are similar in sequence and also similar to the CRD of the IGF-1 receptor. These three domains contain a large number of cysteine residues, although the S2 domain of the EGF receptor has two less cysteine residues than does the CRD of the IGF-1 receptor and the S1 domain of the EGF receptor.

Two important sequence motifs are found in the EGF receptor sequence which are conserved in other EGF receptor homologues. The first motif is the sequence CXXXXXXW which is found near the end of the sequences of the L1 and L2 domains of the EGF receptor and its homologues where C is cysteine and W is tryptophan. (The motif in the L1 domain of the EGF receptor consists of C133-W140 and in the L2 domain consists of C446-W453.) The second motif is the sequence CW which occurs near the start of the S1 and \$2 domains of the EGF receptor (C175-W176 in the S1 domain and C491-W492 in the S2 domain). The two motifs also occur in the insulin receptor family (C120XXXXXXW127 and C175W176 in IGF-1 receptor) in the L1 domain and cysteine-rich domain respectively. In contrast to the EGF receptor and its homologues the first of these two motifs does not occur in the L2 domain of the insulin receptor family. Structurally, the first motif corresponds to part of the L1 domain which allows penetration of the tryptophan residue of the second motif into the β -helix. As the first sequence motif is absent from the L2 domain of the IGF-1 receptor, very little of the

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structure of this domain was used as a template in the modelling of the EGF receptor.

Construction of the alignment of L1 and S1

As the L1 domain of the IGF-1 receptor has a defined core, the sequence alignment was manually constructed with a view to placing most of the conserved hydrophobic residues of the EGF receptor such that their side chains point towards the β-helical core. Homologues of the EGF receptor were included in the alignment to assist with the identification of such residues (Figure 1). Other IGF-1 receptor residues whose positions were conserved were the four cysteine residues in the L1 domain and the residues Arg 77, Trp 127, Trp 176 and Gln 182. Two small regions of the IGF-1 receptor were also included in the alignment. The first of these regions includes the sequence Ser 375 - Lys 380 from the L2 domain of the IGF-1 receptor and is used as a template for modelling the EGF receptor residues Asp 51 - Lys 56. Additional flanking residues were also used. Residues Ile 385 - Phe 397 of the IGF-1 receptor were also used as a template to better model the EGF receptor residues Ile 83 - Leu 95 (Figure 1).

The alignment of the S1 domain of the EGF receptor to the cysteine-rich domain of the IGF-1 receptor used the same combination of modules. All of the putative modules of the EGF receptor S1 domain were aligned to part or all of the corresponding module of the CRD of the IGF-1 receptor. The third module of the IGF-1 receptor CRD (Cys 201 - Cys 218) was used as an additional template to the first (Cys 166 - Cys 183) and second (Cys 191 - Cys 207) putative modules of the EGF receptor S1 domain. The residues Cys 230 - Cys 246 of IGF-1 receptor, which include the protein's fifth module, were aligned to the EGF receptor residues Cys 267-Cys 283 (which include the EGF receptor S1 domain's putative sixth module).

Construction of the alignment of L2 and S2

Construction of the alignment of the sequence of the L2 domain of the EGF receptor to the sequence of the L1 domain of the IGF-1 receptor followed similar principles to that of the alignment of the L1 domain of the EGF receptor. The region Ile 385 - Phe 397 of the IGF-1 receptor served as an additional template and its sequence was aligned to Ile 402 - Leu 414 of the EGF receptor (Figure 2).

An analysis of β -finger modules in the IGF-1 receptor, TNF receptor and the laminin- γ structures revealed that these modules could be classified

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into three types exhibiting some structural and sequence conservation. Two of the structural types are relevant to the IGF-1 receptor and the EGF receptor. The first type of β -finger is characterised by structural conservation of the C-terminal part of the module and also of the linker region after the module. The signature sequence is C...CXXC where the third cysteine residue is the start of another β -finger module. The second type of β -finger is characterised by structural conservation of the N-terminal portion of the module and also of the linker region after the module. The signature sequence is C...CXXXC where the third cysteine is the start of a module whose disulfide bonding pattern has a Cys 1-Cys 3, Cys 2-Cys 4 arrangement.

Comparison of the sequences of the modules of the IGF-1 receptor CRD with the sequence of the EGF receptor S2 domains suggested that the arrangement of modules in the S2 domain were different from those of the IGF receptor CRD and the EGF receptor S1 domain. The residues of the third module in the CRD of the IGF-1 receptor, Cys 201-Cys 218, could be aligned with the segments of the EGF receptor S2 domain sequence: Cys 482 - Cys 499; Cys 534 - Cys 555 and Cys 596 - Cys 612. These modules are the putative first, fourth and seventh modules of the S2 domain. The residues of the first EGF receptor module were also aligned to residues Cys 152 - Cys 181 of the first module of the IGF-1 receptor CRD. The residues of the fourth module in the CRD of the IGF-1 receptor, Cys 221 - Cys 230, a beta-finger module of the first type described above, could be aligned with the regions of sequence Cys 502 - Cys 511 and Cys 558 - Cys 567. These two regions of the EGF receptor S2 domain are the putative second and fifth modules. By elimination, the regions between the two sets of remaining cysteine residues (the putative third and sixth modules) were assigned as β -finger modules of the second type. These regions of sequence are followed by three residues and then a module confaining four cysteine residues. The N-terminal regions of the fifth (Cys 234 - Cys 246) and seventh modules (Cys 277 - Cys 291) of the IGF-1 receptor CRD were both aligned to the N-terminal regions of the two modules (Cys 515 - Cys 531 and Cys 571 - Cys 593).

In the IGF-1 receptor CRD, there is no occurrence of a β -finger module being followed by a module containing four cysteine residues. Thus, the positioning of the fourth module in the EGF receptor S2 model relative to the third module is essentially arbitrary. The same applies to the positioning of

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the seventh module relative to the sixth module of the EGF receptor S2 domain model.

Construction of the model

Version 3 of the MODELLER program (Modeler User Guide, October 1996, San Diego Molecular Simulations Inc) was used to build models of the EGF receptor. The various sequences of the IGF-1 receptor and the EGF receptor shown in Figure 1 were used as the alignment for the construction of the model of the L1 and S1 domains of the EGF receptor. The coordinates of each of the IGF-1 receptor sequences (i.e. the templates) shown in Figure 1 were also used as input for the MODELLER program. Additional distance restraints were generated between $C\alpha$ atoms of selected residues. The restraints were generated as follows. The small IGF-1 receptor templates were superimposed into the structure of the first two domains of the IGF-1 receptor using the Ca atoms of the residues which are aligned in Figure 1. Using the Homology module of the Insight II program (Homology User Guide, October 1995, San Diego BIOSYM/MSI) coordinates were built for the EGF receptor residues which are aligned to the IGF-1 receptor coordinates which are in bold typeface. From these coordinates, distance restraints in the form of Gaussian curves were constructed for pairs of $C\alpha$ atoms with a distance less than 50Å. The sigma value of the Gaussian curves was set to be 2Å. A MODELLER run was submitted using the alignment in Figure 1. The built models of proteins attempt to satisfy these restraints in addition to the restraints the program derives from the alignment.

The aligned IGF-1 receptor and EGF receptor sequences of Figure 2 were used as the alignment for creating the model of the L2 and S2 domains of the EGF receptor. The coordinates of the each of the IGF-1 receptor sequences shown in Figure 2 were used as the structural templates. Two separate sets of additional restraints were used. The first set were based on the underlined IGF-1 receptor residues which are aligned to EGF receptor residues Cys 482 – Cys 534 (the first module of the S2 domain to the first cysteine of the fourth module). From the coordinates of the Cα atoms of these residues, distance restraints in the form of Gaussian curves were constructed for pairs of Cα atoms with a distance less than 50Å. The second set of additional restraints were based on the Cα atoms of the underlined IGF-1 residues which are aligned to EGF receptor residues Cys 534 – Cys 596 (the fourth module of the S2 domain to the first cysteine of the seventh module).

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The signal value of the Gaussian curve used to construct the additional restraints was 1Å.

For both sets of models, the MODELLER program constructed 20 models whose coordinates were perturbed from an initial structure by a random value of maximum distance 4Å. The refinement level used was the 'refine1' option in the MODELLER program.

Most of the insertion regions of the EGF receptor models were constructed using the "loop" routine of version 4 of MODELLER (Modeler User Guide, June 1997, San Diego Molecular Simulations Inc). Coordinates for each insertion were built using one of the two models obtained in the previous section as a scaffold. The regions of sequence for which coordinates were built in this manner were 1-5, 8-12, 16-23, 46-51, 101-107, 145-148, 184-191, 241-262, 319-328, 522-530, 540-546, 578-600 and 612-621. Coordinates for residues 351-368 and 387-393 were constructed simultaneously due to the proximity of these regions in the model of the L2 domain. For each insertion, 50 models were constructed. In cases where the generated loops with the lowest scores had similar backbone structures, the loop building process was considered to have converged and the coordinates of the loop replaced those of the same residues on the refined model. Where the loop structures did not converge, the structures with the three lowest MODELLER loop scores were evaluated using Procheck (Laskowski RA, MacArthur MW, Moss DS, Thornton JM. (1993). J Appl. Crystallogr 26: 283-291), ProsaII (Hendlich M. Lackner P, Weitckus S, Floeckner H, Froschauer R, Gottsbacher K, Casari G, Sippl MJ. (1990) J Mol Biol 216:167-180.; Sippl MJ. (1993) Proteins 17: 355-362.) and Profiles-3D (Bowie JU, Lüthy R, Eisenberg D. (1991) Science 253:164-170.; Lüthy R, Bowie JU, Eisenberg D. 1992. Nature 356:83-85.). For several of these loops, the one with the second lowest MODELLER score was selected as if had a more favorable Profiles3D and ProsaII plot.

In order to retain certain secondary structures, additional restraints were used in the construction of some of the loops. Restraints with the form of a right-handed half-Gaussian function with a s value of 0.05Å were used to hold selected mainchain N-O distances to 3.0Å or less. The atom pairs for which this additional restraint was added were: Gln 139.N - Gln 184.OE1, Val 268.N - Tyr 261.O, Val 268.O - Tyr 261.N, Ser 506.N - Ser 529, Ile 562.N - His 591.O and Glu 578.N - Val 592.

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Structure of the EGF receptor model

The structure of the L1 and S1 domains of the EGF receptor as determined by the modelling described above is shown in Figure 3, while the structure of the L2 and S2 domains is shown in Figure 4. The superposition of these two models onto the structure of the extracellular domains of the IGF-1 receptor is shown in Figure 5.

The coordinates of the EGF receptor domains L1, S1, L2 and S2 are shown in Figure 6.

Figures 7, 8 and 9 show the sidechains of residues of the EGF receptor models which face the large cavity as shown in Figure 5. Figure 10 shows the sidechains of residues of the face of the EGF receptor L2 domain which contains the second beta sheet (the lower face of the L2 domain using the orientation shown in Figure 4).

The structures of the L1 and S1 domains are similar to those of the IGF-1 receptor structure, as expected. There are three major differences in the S1 domain of the EGF receptor model from the structure of the IGF-1 receptor cysteine-rich domain. The first module of the S1 domain is noticeably smaller than that of the IGF-1 receptor CRD. The sixth module (Cys 271 – Cys 283) of the S1 domain is smaller than that of the IGF-1 receptor and occupies less of the region between the L1 and L2 domains. The fifth module (Cys 240 – Cys 267) contains a large insertion which points away from the L1 domain. The eighth module of the EGF receptor S1 domain (Cys 305 – Cys 309) and the linker region (Arg 310 – Val 312) which follows it are similar in structure to the analogous regions of the IGF-1 receptor. Like the IGF-1 receptor, the linker region is postulated to be a hinge region about which the S1 domain and the L2 domain can reorient.

A region of the EGF receptor in the L2 domain which could not be aligned with the IGF-1 receptor includes the residues Trp 386 – Pro 387 which are conserved across the EGF receptor family. This sequence motif is not found in the insulin receptor family and may represent a region of novel structure.

The amino acids 352-367 correspond to a large insertion in the L2 domain of the EGF receptor. The amino acids 351-364 have been identified as the epitope for several antibodies against the EGF receptor (Wu, D.G., Wang, L.H., Sato, G.H., West, K.A., Harris, W.R., Crabb, J.W., Sato, J.D., 1989, J. Biol. Chem. 264:17469-17475). This region forms a loop which sticks out of the

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surface is consistent with this region being accessible to antibodies. The structure itself is difficult to model accurately since its sequence does not correspond to any part of the IGF-1 receptor sequence. The position of this insertion is in approximately the same region as where the IGF 1 receptor differs in backbone structure.

The S2 domain model of the EGF receptor adopts a different arrangement of modules and consequently a different shape that of the CRD of the IGF-1 receptor and the S1 domain model of the EGF receptor. The disulfide bond arrangement is the same as that predicted by similarity to the tumour necrosis receptor (Ward, C.W., Hoyne, P.A., Flegg, R.H., 1995, Proteins 22:141-153) and has since been confirmed by mass spectroscopic analyses of proteolytically digested EGF receptor extracellular domain (Abe, Y., Odaka, M., Inagaki, F., Lax, I., Schlessinger, J., Kohda, D., 1998, J. Biol. Chem. 273:11150-11157). The only significant contact of the S2 domain with the L2 domain of the EGF receptor model is the intercalation of Trp 492 into the L2 domain, analogous to that made by Trp 176 in the S1 domain of the EGF receptor and Trp 176 in the CRD of the IGF-1 receptor to their respective L1 domains. Unlike the S1 domain of the EGF receptor, the rest of the S2 domain does not make any contacts with the L2 domain. The S2 domain is rod-like and points out from the L2 domain with a different geometry to the manner in which the S1 domain points out from the L1 domain.

Putative binding sites of the EGF receptor

From the IGF-1 receptor structure and a number of insulin receptor mutants, one of the regions of insulin binding was proposed to the face of the L1 domain which contains the second β -sheet (Garrett, T.P., McKern, N.M., Lou, M., Frenkel, M.J., Bentley, J.D., Lovrecz, G.O., Elleman, T.C., Cosgrove, L.J., Ward, C.W., 1998 Nature 394:395-399). This surface is characterised by a number of hydrophobic residues which point out of the structure and also the presence of a structurally conserved loop. By analogy, we propose that the analogous β sheets of the L1 and L2 are potential binding sites. These sheets contain a number of hydrophobic residues, conserved amongst EGF receptor family members, which point away from the core of the β -helix structure. Residue 45 of a mutant EGF has been cross-linked to the residue Lysine 465 which is in the last strand of the lower β sheet of the L2 domain. (Summerfield, AE et al, J Biol Chem, 1996, 271(33), 19656-19659). Tyrosine 101 has been cross-linked to the N-terminus of EGF (Woltjer, RL et al, PNAS,

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1992, 89(16), 7801-7805). This residue is in the portion of sequence which immediately follows a strand in the lower β sheet of L1.

The side chain of asparagine 1 of EGF has been cross-linked to lysine 336 of the EGF receptor (Wu, DG et al, PNAS, 1990, 87(8), 3151-3155). The latter residue is in the N-terminal helix of the L2 domain and points towards the cavity which is formed when the two halves of the EGF receptor are postioned in a similar arrangement to the first three domains of the IGF-1 receptor. Two nearby residues, Asn 328 and Asn 337 are glycosylated. This mutation is in a similar position to the insulin receptor mutant S323L which has aberrent insulin binding.

Several insertional mutants of the EGF receptor extracellular domain were constructed to probe the role of several regions of the receptor (Harte, M.T., Gentry, L.E., 1995, Arch Biochem Biophys 322:378-389). A number of these mutants were not detectably secreted by the cells producing them, suggesting that they did not fold to form stable proteins. Most of these insertions were in positions in the model structure where they would be unable to tolerate an insertion. In contrast, most of the other insertions were in loops or other positions which, according to the model, are able to tolerate insertions. EGF receptor extracellular domain mutants with insertions at residues 162, 169, 174 and 220 bound EGF with a similar affinity to the wildtype EGF receptor extracellular domain but bound TGF- α with a lower affinity. The first of these insertions was located one residue before the last cysteine residue of the L1 domain. The second and third insertions were present in the first module of the EGF receptor S1 domain and the fourth was present in the third module of the S1 domain. All of these positions are on a side of the molecule far removed from the large cavity as shown in Figure 5. EGF receptor mutants with insertions at positions 251 (in the fifth module of the S1 domain) and 575 (in the sixth module of the S2 domain) appeared to bind twice as much ligand as the wild-type receptor. Two insertional mutants which showed reduced EGF receptor binding contained insertions at positions 291 (in the seventh module of the S1 domain) and 474 (one residue before the last cysteine of the L2 domain).

Another EGF receptor mutant which shows altered ligand binding behaviour is the R497K mutant. The site of this mutation in the first module of the S2 domain and faces the side of the L2 domain opposite to that containing residue 465. This mutant binds EGF in a similar fashion as wild-

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type receptor but abolishes the high affinity binding site for TGF-α (Moriai, T., Kobrin, M.S., Hope, C., Speck, L., Korc, M., 1994, Proc Natl Acad Sci U S A 91:10217-10221).

On the faces containing the second β -sheet (the lower face according to the orientations shown in Figures 3 and 4) of the L1 and L2 domains are a number of solvent-exposed hydrophobic residues including Tyr 64, Leu 66, Tyr 89, Tyr 93, Leu 348, Phe 380 and Phe 412. According to a survey of protein-protein interfaces, tyrosine, phenylalanine and leucine are more likely to be involved in an interface than on the exterior of a protein complex (Tsai C-J, Lin SL, Wolfson, HJ, Nussinov R (1997) Protein Sci 6: 53-64). Lys 465 is located on the lower face of the L2 domain and Tyr 101 is proximal to the lower face fo the L1 domain and are consistent with the lower faces of the domains having roles in ligand binding.

Strategies for developing EGF receptor ligands

For several signalling systems, ligand analogues which have antagonist properties have been described. These ligand include the human growth hormone (Chen WY, Chen NY, Yun J, Wagner TE, Kopchick JJ (1994) J Biol Chem 269:15892-15897), interleukin-6 (Savino R, Lahm A, Salvati AL, Ciapponi L, Sporeno E, Altamura S, Paonessa G, Toniatti C, Ciliberto G EMBO J 1994 Mar 15;13(6):1357-67) and interleukin-4 (Kruse N, Tony HP, Sebald W (1992) EMBO J 11:3237-3244; Zurawski SM, Vega F Jr, Huyghe B, Zurawski G (1993) EMBO J 12:2663-2670). The function of these unmodified ligands is to bind their receptors and then subsequently recruit a second receptor molecule. The mutations of the ligands mentioned above are in positions which interfere with the binding of the second receptor (de Vos AM, Ultsch M, Kossiakoff AA (1992) Science 255:306-312; Brakenhoff JP, de Hon FD, Fontaine V, ten Boekel E, Schooltink H, Rose-John S, Heinrich PC, Content J, Aården LA (1994) J Biol Chem 269:86-93; Davis ID, Treutlein HR, Friedrich K, Burgess AW (1995) Growth Factors 12:69-83).

To date, no analogues of EGF receptor ligands have been found which are purely antagonistic. Whether EGF and its homologues have sites of binding for two receptor molecules, like the proteins described above, has not been shown. Analysis of 1H NMR transferred nuclear Overhauser enhancement data for titration of TGF-α with the extracellular domain of the EGF receptor indicates that most parts of the ligand are in contact with the receptor upon binding (McInnes C, Hoyt DW, Harkins RN, Pagila RN,

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Debanne MT, O'Connor-McCourt M, Sykes BD (1996) J Biol Chem 271:32204-32211). However, the concentrations used in the experiment were such that the dominant receptor species was the ligand-receptor complex with 2:2 stiochiometry. However, even if the ligands of the EGF receptor are buried in the cleft formed by the first three domains of the receptor, it is difficult to envisage that such binding will lead to contact with most of the bound ligand when only one receptor binds the ligand. In an alternative scheme, at least two separate faces on EGF are required to bind into the large cleft of a single EGF receptor molecule which enacts a conformational change in the receptor which then allows it to dimerise. An antagonist may bind to the first binding site of the receptor and not the second, thus preventing dimerisation and subsequent signalling of the receptor. Thus, delineation of the parts of the ligand involved in the (putative) primary and secondary binding faces would greatly assist antagonist design.

Using the EGF receptor model and the known structures of EGF receptor ligands, it may be possible to construct a model, or a partial model, of ligand binding which could suggest which parts of bound ligand are involved in binding to the first and second EGF receptors of the ligandreceptor complex. There are several computer programs that can assist with the construction of such models. Programs such as Quilt (Lijnzaad P, Argos P (1997) Proteins 28:333-343; Lijnzaad P, Berendsen HJ, Argos P (1996) Proteins 26:192-203; Lijnzaad P, Berendsen HJ, Argos P 1996 Proteins 25:389-397) can be used to suggest sites on proteins involved in interactions with other proteins. Possible structures of protein complexes can be obtained by programs such as FT-DOCK (Gabb HA, Jackson RM, Sternberg MJ (1997) J Mol Biol 272:106-120) and GRAMM (Vakser IA (1996) Biopolymers 39:455-464; Katchalski-Katzir E, Shariv I, Eisenstein M, Friesem AA, Aflalo C, Vakser IA (1992) Proc Natl Acad Sci U S A 89:2195-2199). The calculation of electrostatic potentials from the Poisson-Boltzmann equation has been used to investigate complexes made up of cytokines and growth factors and their receptors (Demchuk E, Mueller T, Oschkinat H, Sebald W, Wade RC (1994) Protein Sci 3:920-935) and may guide the construction of model complexes. The construction of models will suggest regions of the EGF receptor ligands which may be involved in receptor binding. With the model and supporting experiments, it is envisaged that mutants of EGF and TGF-\alpha will be constructed which are potential antagonists.

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The majority of targets for drugs which have made use of structural information are enzymes. One advantage of enzymes over other types of proteins is the presence of substrate-binding clefts whose normal function is to bind small molecule substrates or short lengths of peptides. In contrast, few small molecule inhibitors have been developed which inhibit protein-protein interactions.

Desolvation of protein surfaces appears to be an important factor in the formation of a protein-protein complex. Since, unlike the substrate-binding clefts of enzymes, protein-binding surfaces tend to be much less concave, a bound small molecule is unlikely to provide enough desolvation to enable tight binding. The lower surfaces of the L1 and L2 domains, which have been suggested to be involved in ligand binding, contain hydrophobic regions which suggest that they need to be buried for strong binding of a molecule to these surfaces to occur. We envisage that cyclic molecules, including cyclic peptides, may be able to bind to such surfaces. Hydrophobic functional groups may be chosen which, when bound to the hydrophobic regions of the relevent face, desolvate regions of the protein. Some of the functional groups which interact with the protein will be polar or charged to make favourable electrostatic interactions. Other parts in the cyclic molecule may be polar or charged to increase the aqueous solubility of the molecule. Cyclic molecules also have the advantages of having few possible conformations when unbound, providing a lower loss of entropy upon binding and thus greater binding as compared to a non-cyclic analogue. A degree of flexibility would exist and would allow the molecule to alter its conformation to better accommodate the protein it is binding to.

Algorithms such as LUDI (Bohm HJ (1992) J Comput Aided Mol Des, 6: 593-606) can be used to search for functional groups and molecular moieties which may interact with a surface of the EGF receptor model. Algorithms such as CLIX (Lawrence MC, Davis PC (1992) Proteins 12:31-41) or DOCK (Kuntz ID, Blaney JM, Oatley SJ, Langridge R, Ferrin TE (1982) J Mol Biol 161:269-88) can be used to search a database of molecular structures for those which have shape and/or chemical complementarity to the EGF receptor. Computational combinatorial design algorithms (Miranker A, Karplus M Proteins (1991) 11:29-34; Eisen MB, Wiley DC, Karplus M, Hubbard RE; Caflisch A (1994) Proteins 19:199-221) can also be tried. In one instance, a combinatorial approach has been used to design peptides to

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inhibit the interaction of the proteins Ras and Raf (Zeng, J, et al, Protein Engineering, to be published).

We envisage that as an alternative to a cyclic molecule, a small protein could be used as a scaffold for placing amino acids that will interact with the EGF receptor. At least one small protein (potato carboxypeptidase inhibitor) with a fold different to that of EGF receptor ligands has been identified which is a weak EGF antagonist (Blanco-Aparicio C, Molina MA. Fernandez-Salas E, Frazier ML, Mas JM, Querol E, Aviles FX, de Llorens R (1998) J Biol Chem 273:12370-12377). The use of a structural scaffold for proteins with diverse functions has been observed in Nature (Lin SL, Nussinov R 1995 Nat Struct Biol 2:835-837). Other molecular scaffolds such as dendrimers may also be considered which can be used to present the functional groups which will tightly interact with the EGF receptor.

At least two, non-exclusive modes of action can be envisaged. The first mode involves a molecule competing for binding sites with one of the EGF receptor's natural ligands. Most likely, the molecule will prevent the receptor dimerisation which is required for activation of the EGF receptor, thus acting as an antagonist. We do not rule out the possibility that the binding may be activating and the molecule acts as an agonist. The second potential mode of action is for the molecule to bind to a site on the EGF receptor which is not necessarily a ligand binding site. Such a molecule may be physically large enough to hinder physical access of a second receptor to the receptor which binds the molecule in question. This would hinder dimerisation and subsequent activation of the receptor. If the molecule is sufficiently "sticky", it may attract a second EGF receptor and induce dimerisation, thereby acting as an agonist rather than an antagonist.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

Claims:

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- 1. A method of designing a compound which binds to a molecule of the EGF receptor family and modulates an activity mediated by the molecule, which method comprises the step of assessing the stereochemical complementarity between the compound and a topographic region of the molecule, wherein the molecule is characterised by
- (i) amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;
- (ii) one or more subsets of said amino acids related to the coordinates shown in Figure 6 by whole body translations and/or rotations; or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.
- 2. A method as claimed in claim 1 in which the topographic region of the molecule is defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.
- A method as claimed in claim 1 in which the topographic region of the molecule is defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.
 - 4. A method as claimed in any one of claims 1 to 3 in which the compound is designed so as to complement the structure of a topographic region of the molecule as depicted in Figure 5.

- 5. A method as claimed in any one of claims 1 to 4, in which the compound has structural regions able to make close contact with amino acid residues at the surface of the molecule lining the groove as depicted in Figure 7, Figure 8 or Figure 9.
- 6. A method as claimed in any one of claims 1 to 5, in which the compound has a stereochemistry such that it can interact with both the L1 and L2 domains of the molecule.
- 7. A method as claimed in any one of claims 1 to 5, in which the compound interacts with the region of the L1 domain-S1 domain interface, causing an alteration in the positions of the L1 and S1 domains relative to each other.
- 15 8. A method as claimed in any one of claims 1 to 5, in which the compound interacts with the hinge region between the L2 domain and the S1 domain causing an alteration in the positions of the L2 and S1 domains relative to each other.
- 9. A method as claimed in any one of claims 1 to 5, in which the compound interacts with the β -sheet of the L1 domain causing an alteration in the position of the L1 domain relative to the position of the S1 domain or the L2 domain.
- 25 10. A method as claimed in any one of claims 1 to 5 in which the compound has a stereochemistry such that it can interact with both the L2 and S2 domains of the molecule.
- 11. A method as claimed in any one of claims 1 to 5, in which the
 30 compound interacts with the hinge region between the L2 domain and the S2
 domains causing an alteration in the positions of the L1 and L2 domains
 relative to each other.
- 12. A method as claimed in any one of claims 1 to 5, in which the
 35 compound interacts with the β-sheet of the L2 domain causing an alteration in the position of the L2 domain relative to the position of the S2 domain.

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- 13. A method as claimed in any one of claims 1 to 5, in which the compound binds to a lower face containing the second β -sheet of the L1 and/or L2 domains, wherein the structure of the face is characterised by a plurality of solvent-exposed hydrophobic residues.
- 14. A method according to claim 13, in which the hydrophobic residues include:
 - (i) Tyr64, Leu66, Tyr89, Tyr93; and/or
- 10 (ii) Leu348, Phe380 and Phe412.
 - 15. A method as claimed in anyone of claims 1 to 14, in which the stereochemical complementarity between the compound and the receptor site is such that the compound has a K_d for the receptor site of less than 10^{-6} M.
 - 16. A method as claimed in claim 15 in which the K_d is less than 10⁻⁸M.
- 17. A method as claimed in any one of claims 1 to 16 in which the
 20 compound is selected or modified from a known compound identified from a data base.
 - 18. A method according to any one of claims 1 to 17, in which the compound has the ability to increase an activity mediated by a molecule of the EGF receptor family.
 - 19. A method according to any one of claims 1 to 18, in which the compound has the ability to decrease an activity mediated by a molecule of the EGF receptor family.
 - 20. A method according to claim 19, in which the stereochemical interaction between the compound and the molecule is adapted to prevent the binding of a natural ligand of the receptor molecule to the receptor site.
- 35 21. A method according to claim 19 or claim 20, in which the compound has a K_I of less than 10⁻⁸M.

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- 22. A method according to claim 21, in which the compound has a K_1 of less than 10^{-8} M.
- 5 23. A method according to claim 22, in which the compound has a K_I of less than 10⁻⁹M.
 - 24. A computer-assisted method for identifying potential compounds able to bind to a molecule of the EGF receptor family and to modulate an activity mediated by the molecule, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:
 - (a) inputting into the programmed computer, through the input device, data comprising the atomic coordinates of the EGF receptor molecule as shown in Figure 6, or a subset thereof;
 - (b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to the atomic coordinates of a topographic region of the EGF receptor molecule as shown in Figure 6, or a subset thereof, thereby generating a criteria data set;
 - (c) comparing, using the processor, the criteria data set to a computer database of chemical structures;
 - (d) selecting from the database, using computer methods, chemical structures which are similar to at least a portion of said criteria data set; and
 - (e) outputting, to the output device, the selected chemical structures which are similar to a portion of the criteria data set.
 - 25. A computer-assisted method according to claim 24, in which the method is used to identify potential compounds which have the ability to decrease an activity mediated by the molecule.
- 30 26. A computer-assisted method according to claim 24 or claim 25, which further comprises the step of selecting one or more chemical structures from step (e) which interact with the molecule in a manner which prevents the binding of natural ligands to the molecule.
- 35 27. A computer-assisted method according to any one of claims 24 to 26, which further comprises the step of obtaining a compound with a chemical

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structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the molecule.

- 28. A computer-assisted method according to claim 24, in which the method is used to identify potential compounds which have the ability to increase an activity mediated by the molecule.
 - 29. A computer-assisted method according to claim 28, further comprising the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to increase an activity mediated by the receptor.
- 30. A method of screening a putative compound having the ability to modulate the activity of a molecule of the EGF receptor family, comprising the
 steps of identifying a putative compound by a method according to any one of claims 1 to 29, and testing the compound for the ability to increase or decrease an activity mediated by the molecule.
 - 31. A method according to claim 30, in which the test is carried out in vitro.
 - 32. A method according to claim 31, in which the test is a high throughput assay.
 - 33. A method according to claim 30, in which the test is carried out in vivo.
 - 34. A method as claimed in any one of claims 1 to 33 in which the molecule of the EGF receptor family is selected from the group consisting of the EGF receptor, ErbB3 and ErbB4.
- 30 35. A method as claimed in claim 34 in which the molecule of the EGF receptor family is the EGF receptor.
 - 36. A compound able to bind to a molecule of the EGF receptor family and to modulate an activity mediated by the molecule, the compound being obtained by a method according to any one of claims 1 to 35.

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- 37. A compound which possesses stereochemical complementarity to a topographic region of a molecule of the EGF receptor family and modulates an activity mediated by the molecule, wherein the molecule is characterised by
- (i) amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;
- (ii) one or more subsets of said amino acids related to the coordinates shown in Figure 6 by whole body translations and/or rotations; or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6;

with the proviso that the compound is not a naturally occurring ligand of a molecule of the EGF receptor family or a mutant thereof.

- 38. A compound as claimed in claim 37 in which the topographic region of the molecule is defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 1-475 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.
- 39. A compound as claimed in claim 37 in which the topographic region of the molecule is defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6, or an amino acid sequence which forms an equivalent three-dimensional structure to that of the region defined by amino acids 313-621 of the EGF receptor positioned at atomic coordinates substantially as shown in Figure 6.
- 30 40. A compound as claimed in anyone of claims 37 to 39, in which the stereochemical complementarity between the compound and the molecule is such that the compound has a K_d for the receptor site of less than $10^{-6}M$.
- 35 41. A compound as claimed in claim 40 in which the K_d is less than $10^{-8}M$.

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- 42. A compound as claimed in any one of claims 36 to 41, wherein the compound increases an activity mediated by a molecule of the EGF receptor family.
- 5 43. A compound as claimed in any one of claims 36 to 41, wherein the compound decreases an activity mediated by a molecule of the EGF receptor family.
- 44. A compound as claimed in any one of claims 36 to 43 in which the
 10 molecule of the EGF receptor family is selected from the group consisting of the EGF receptor, ErbB2, ErbB3 and ErbB4.
 - 45. A compound as claimed in claim 44 in which the molecule of the EGF receptor family is the EGF receptor.
 - 46. A pharmaceutical composition for preventing or treating a disease which would benefit from increased signalling by a molecule of the EGF receptor family, which comprises a compound as claimed in claim 42 and a pharmaceutically acceptable carrier or diluent.
 - 47. A pharmaceutical composition for preventing or treating a disease associated with signalling by a molecule of the EGF receptor family, which comprises a compound as claimed in claim 43 and a pharmaceutically acceptable carrier or diluent.
 - 48. A method of preventing or treating a disease which would benefit from increased signalling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound as claimed in claim 42.
 - 49. A method according to claim 48 wherein the disease is selected from wound healing and gastric ulcers.
- 50. A method of preventing or treating a disease associated with signalling
 35 by a molecule of the EGF receptor family which method comprises

administering to a subject in need thereof a compound as claimed in claim 43.

- 51. A method according to claim 50 wherein the disease is selected from psoriasis and tumour states consisting of cancer of the breast, brain, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma and glioblastoma.
- 52. A method as claimed in any one of claims 48 to 51 in which the molecule of the EGF receptor family is selected from the group consisting of the EGF receptor, ErbB2, ErbB3 and ErbB4.
 - 53. A method as claimed in claim 52 in which the molecule of the EGF receptor family is the EGF receptor.

	1/7	2	
66 71 75 73 78	149 155 172 165	232 232 233 233 233	301 310 312 320 311 308
1R 1 LYPGEVC-PG-IDIRNDYQQLKRLEN-CTVIEGYLHILLISK-AEDYRSYRFP	GDLFPNLTVIRGWKLFY-NYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLCYLSTVDWSLILDAVSNNYIV-GNKP-PKECG KDLFPNLTVIRGWKLFY-NYALVIFEMT	1R 201 CHPE	AGUCUPACP AGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BAGUCUPACP BACCUPACP BACCUPACP BACCUPACP BACCUPACP BATCURK BATCURK BATCURK BACCUPACP BACCUPAC
IGF1R IGF1R INSR EGFR ETD2 ETD3 ETD3	IGF1R IGF1R INSR EGFR erb2 erb3 erb4	IGF1R IGF1R IGF1R INSR EGFR erb2 erb3	IGF1R IGF1R InsR EGFR erb2 erb3 erb4

Figure 1

391 399 388 387

159 485 493

- GLESLGDLFPNLTVIRGWKLFY - NYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLCYLSTVDWSLILD - - AVSNNYIVGNKP - PKECGD - - - LC - - - P -GLESLKDLFPNLTVIRGSRLFF-NYALVIFEMVHLKELGLYNLMNITRGSVRIEKNNELCYLATIDWSRILD-.SVEDNHIVLNKDDNEECGD---IC---P $\textbf{D-}\cdots\textbf{-L-} \textbf{HAFENLEIIRGRTKQHGQFSLAVVSL-} \textbf{NITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFG-TSGQKTKIISNRG-ENSCKATGQVCHAL-}$

385 ILGEEQLEGNYSF 397

IGF1R

INSR EGFR erb2

313 321 312 309

erb3 erb4

IGF1R

InsR EGFR erb2

			PCT/AU99/004
484 481 481	2/72	1187 555 555 555 553	621 631 624 626
DL. HAFENLEIIRGRTKQHGQFSLAVVSL.NITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFG-TSGURIRIISNRG-ENSCRATGE, CONTROL DL. SVFQNLQVIRGRILHNGAYSLTLQGL-GISWLGLRSLRELGSGLALIHNTHLCFVHTVPWDQLFR-NPHQALLHTANRP-EDECVGEGLACHQL-NF. SVFQNLQVIRGRILHNGAYSLTLGGRSLYNRGFSLLIMKNLNVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRGFTEERLDIKHNRP-RRDCVAEGKVCDPL-NF. SVFSNLTTIGGRSLYNRGFSLLIMKNLNVTSLGFRSLKEISAGRIYITDNSNLCYYHTINWTTLFS-TINQRIVIRDNRK-AENCTAEGMVCNHL-DF. SVFSNLVTIGGRVLYS-GLSLLILKQQGITSLQFQSLKEISAGNIYITDNSNLCYYHTINWTTLFS-TINQRIVIRDNRK-AENCTAEGMVCNHL-1	RCLGSCSAPDNDTACVACRHYYYAGVCVPACPPNTYRFEGWRC 246 277 CPSGFIRNGSQSMYCIPCEG 296 201 CHPECLGSCSAPDNDTACV	GTAKGKTNCPATVINGOFVERCWTTNRC GTAKGKTNCPATVINGOFVERCWTHSHC GTAKGKTNCPATVINGOFVERCWTHSHC GTAKGKTNCPATVINGOFVERCWTHSHC GTAKGKTNCPATVINGOFVERCWT	ACRHYYYAGVCVPACPETRN
EGFR erb2 erb3 erb4	IGF1R IGF1R	IGFIR IDSR EGFR erb2 erb3 erb4	IGF1R IGF1R IGF1R EGFR erb2 erb3

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Figure 2

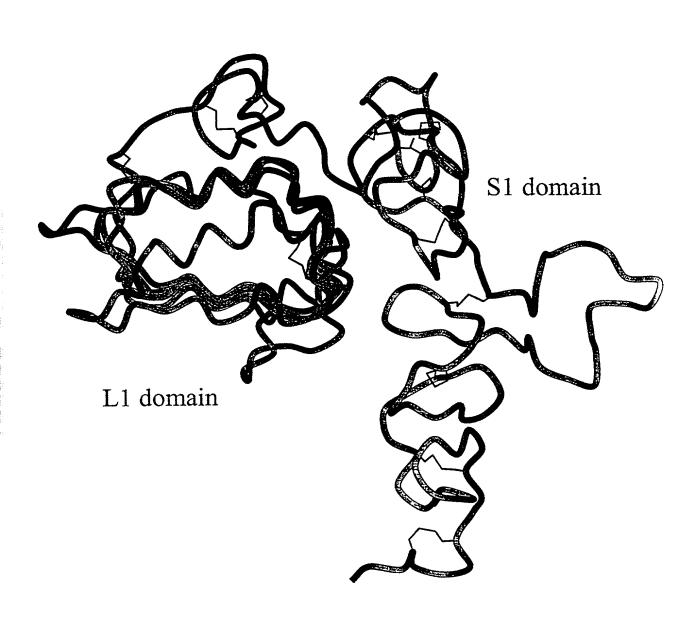


Figure 3

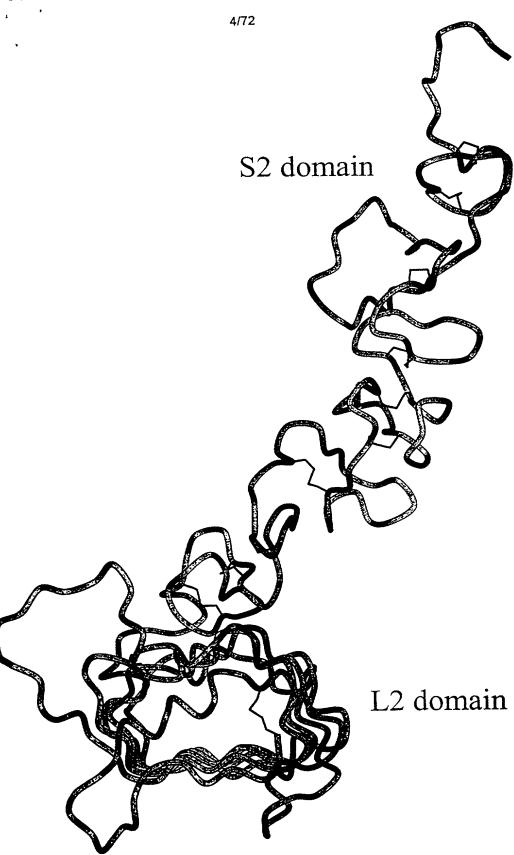


Figure 4

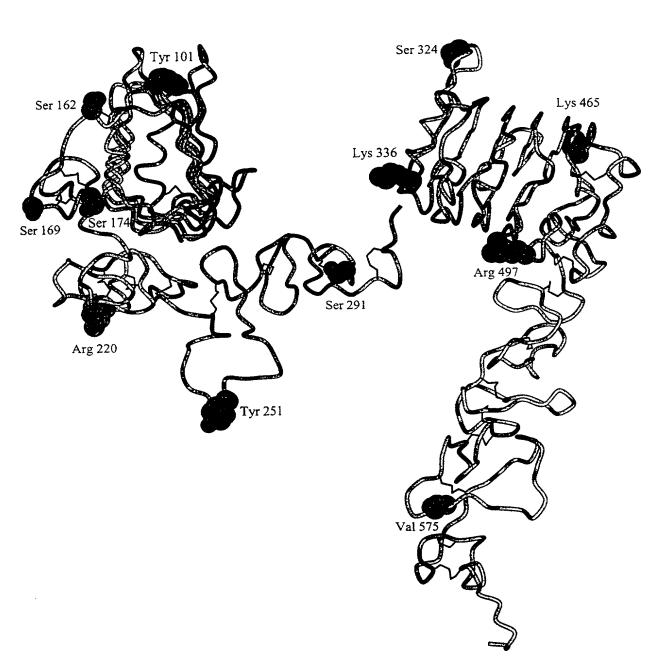


Figure 5

t					
		,	56.440	23.698 108.904	1.00 60.00
ATOM	1 N LEU	1	56.060	23.469 107.493	1.00 60.00
MOTA	2 CA LEU	1			1.00 60.00
ATOM	3 CB LEU	1	57.306	23.463 106.595	
MOTA	4 CG LEU	1	58.047	24.812 106.566	1.00 60.00
ATON	5 CD1 LEU	1	59.282	24.747 105.654	1.00 60.00
ATOM:	6 CD2 LEU	1	57.097	25.966 106.208	1.00 60.00
MOTA	7 C LEU	1	55.390	22.146 107.356	1.00 60.00
ATOM	8 O LEU	1	54.171	22.035 107.470	1.00 60.00
ATOM	9 N GLU	2	56.187	21.094 107.106	1.00 60.00
ATOM	10 CA GLU	2	55.622	19.787 106.953	1.00 60.00
ATOM	11 CB GLU	2	56.680	18.710 106.649	1.00 60.00
ATOM	12 CG GLU	2	57.348	18.881 105.282	1.00 60.00
MOTA	13 CD GLU	2	58.367	17.763 105.104	1.00 60.00
ATOM	14 OE1 GLU	2	57.942	16.580 105.009	1.00 60.00
	15 OE2 GLU	2	59.587	18.080 105.070	1.00 60.00
ATOM		2	54.979	19.447 108.254	1.00 60.00
ATOM		2	53.886	18.886 108.286	1.00 60.00
ATOM	17 O GLU		55.635	19.811 109.372	1.00 60.00
MOTA	18 N GLU	3			1.00 60.00
ATOM	19 CA GLU	3	55.105		1.00 60.00
ATOM	20 CB GLU	3	55.982	19.975 111.831	
ATOM	21 CG GLU	3	57.298	19.207 111.972	1.00 60.00
MOTA	22 CD GLU	3	58.002	19.710 113.225	1.00 60.00
MOTA	23 OE1 GLU	3	57.458	19.488 114.340	1.00 60.00
MOTA	24 OE2 GLU	3	59.092	20.324 113.085	1.00 60.00
ATOM	25 C GLU	3	53.771	20.141 110.800	1.00 60.00
ATOM	26 O GLU	3	52.852	19.560 111.374	1.00 60.00
ATOM.	27 N LYS	4	53.621	21.372 110.272	1.00 60.00
ATOM	28 CA LYS	4	52.367	22.054 110.404	1.00 60.00
ATOM	29 CB LYS	4	52.277	23.392 109.653	1.00 60.00
ATOM	30 CG LYS	4	53.156	24.512 110.204	1.00 60.00
ATOM	31 CD LYS	4	53.178	25.733 109.282	1.00 60.00
ATOM	32 CE LYS	4	53.874	26.957 109.876	1.00 60.00
ATOM	33 NZ LYS	4	53.815	28.084 108.917	1.00 60.00
ATOM	34 C LYS	4	51.302	21.193 109.810	1.00 60.00
ATOM	35 O LYS	4	51.578	20.244 109.080	1.00 60.00
		5	50.037	21.508 110.135	1.00 40.00
ATOM:		5	48.966	20.748 109.575	1.00 40.00
ATOM	37 CA LYS	5	47.573	21.255 109.989	1.00 40.00
ATOM	38 CB LYS	5	47.148	20.806 111.384	1.00 40.00
ATOM	39 CG LYS		47.058	19.284 111.511	1.00 40.00
ATOM	40 CD LYS	5			1.00 40.00
ATOM	41 CE LYS	5	46.562	18.804 112.874	
MOTA	42 NZ LYS	5	46.275	17.354 112.819	1.00 40.00
MOTA	43 C LYS	5	49.082	20.925 108.106	1.00 40.00
ATOM	44 O LYS	5	48.929	19.982 107.333	1.00 40.00
MOTA	45 N VAL	6	49.383	22.157 107.664	1.00 40.00
ATOM	46 CA VAL	6	49.512	22.339 106.249	1.00 40.00
MOTA	47 CB VAL	6	49.637	23.781 105.851	1.00 40.00
MOTA	48 CG1 VAL	6	49.792	23.864 104.325	1.00 40.00
MOTA	49 CG2 VAL	6	48.415	24.543 106.390	1.00 40.00
ATOM	50 C VAL	6	50.748	21.620 105.810	1.00 40.00
ATOM	51 O VA L	6	51.6 56	21.379 106.604	1.00 40.00
ATOM	52 N CYS	7	50.790	21.227 104.521	1.00 40.00
MOTA	53 CA CYS	7	51.923	20.529 103.983	1.00 40.00
MOTA	54 CB CYS	7	51.689	19.021 103.848	1.00 40.00
ATOM	55 SG CYS	7	51.618	18.187 105.456	1.00 40.00
ATOM	56 C CYS	7	52.147	21.055 102.605	1.00 40.00
MOTA	57 O CYS	7	51.319	21.791 102.081	1.00 40.00
MOTA	58 N GLN	8	53.347	20.797 102.055	1.00 40.00
ATOM	59 CA GLN	8	53.616	21.165 100.701	1.00 40.00
ATOM	60 CB GLN	8	54.351	22.506 100.524	1.00 40.00
ATOM	61 CG GLN	8	53.485	23.727 100.840	1.00 40.00
MOTA	62 CD GLN	8	54.294	24.975 100.513	1.00 40.00
ATOM	63 OE1 GLN	8	55.306	25.265 101.151	1.00 40.00
ATOM	64 NE2 GLN	8	53.838	25.736 99.482	1.00 40.00
ATOM	65 C GLN	8	54.512	20.103 100.178	1.00 40.00
ATOM	66 O GLN	8	55.730	20.163 100.343	1.00 40.00
MOTA	67 N GLY	9	53.922	19.084 99.537	1.00 40.00
ATOM	68 CA GLY	9	54.730	18.037 99.000	1.00 40.00
	69 C GLY	9	55.099	17.129 100.127	1.00 40.00
ATOM ATOM	70 O GLY	9	55.704	16.080 99.905	1.00 40.00
ATOM	70 0 GE1	10	54.744	17.503 101.374	1.00 60.00
	72 CA THR	10	55.074	16.629 102.460	1.00 60.00
ATOM		10	54.609	17.140 103.793	1.00 60.00
ATOM		10	55.222	18.389 104.079	1.00 60.00
ATOM		10	54.979	16.108 104.873	1.00 60.00
ATOM		10	54.334	15.371 102.172	1.00 60.00
ATOM.		10		14.280 102.177	1.00 60.00
ATOM	77 O THR	10	54.902	19.200 102.177	1.00 00.00

ATOM	78 N	SER	11	53.031	15.523	101.874	1.00 60.00
ATOM	79 CA	SER	11	52.244	14.405	101.465	1.00 60.00
ATOM	80 CB	SER	11	50.875		102.155	1.00 60.00
MOTA	81 OG	SER	11	50.169		101.676 100.019	1.00 60.00 1.00 60.00
ATOM	82 C 83 O	SER SER	11 11	52.005 51.261	14.661 1 15.567	99.645	1.00 60.00
ATOM ATOM	83 O 84 N	ASN	12	52.663	13.864	99.165	1.00 40.00
ATOM	85 CA	ASN	12	52.571	14.073	97.757	1.00 40.00
MOTA	86 CB	ASN	12	53.837	14.744	97.194	1.00 40.00
ATOM	87 CG	ASN	12	53.594	15.173	95.755 95.255	1.00 40.00
MOTA	88 OD1		12 12	52.470 54.690	15.141 15.585	95.063	1.00 40.00
ATOM ATOM	89 ND2 90 C	ASN	12	52.500	12.716	97.159	1.00 40.00
ATOM	91 0	ASN	12	51.561	11.957	97.390	1.00 40.00
ATOM	92 N	LYS	13	53.526	12.393	96.359	1.00 40.00
MOTA	93 CA	LYS	13	53.623	11.120	95.726	1.00 40.00
ATOM	94 CB	LYS	13 13	54.640 56.048	11.096 11.543	94.569 94.970	1.00 40.00
ATOM ATOM	95 CG 96 CD	LYS LYS	13	57.109	11.232	93.914	1.00 40.00
ATOM	97 CE	LYS	13	58.486	11.817	94.235	1.00 40.00
ATOM	98 NZ	LYS	13	58.455	13.291	94.099	1.00 40.00
ATOM	99 C	LYS	13	54.007	10.065	96.701	1.00 40.00
ATOM	100 0	LYS	13	55.183	9.740 9.495	96.853 97.398	1.00 40.00
MOTA MOTA	101 N 102 CA	LEU	14 14	53.007 53.328	8.352	98.190	1.00 40.00
ATOM	102 CB	LEU	14	52.239	7.967	99.206	1.00 40.00
ATOM	104 CG	LEU	14	52.039		100.313	1.00 40.00
ATOM		1 LEU	14	51.544	10.356	99.732	1.00 40.00
ATOM		2 LEU	14	51.134 53.428	8.487 7.269	101.436 97.171	1.00 40.00 1.00 40.00
ATOM ATOM	107 C 108 O	LEU LEU	14 14	52.591	7.186	96.274	1.00 40.00
ATOM	100 N	THR	15	54.469	6.424	97.244	1.00 40.00
ATOM	110 CA		15	54.569	5.441	96.210	1.00 40.00
ATOM	111 CB		15	55.536	5.812	95.123	1.00 40.00 1.00 40.00
ATOM	112 OG		15 15	56.845 55.079	5.948 7.136	95.655 94.488	1.00 40.00
ATOM ATOM	113 CG 114 C	THR	15	55.043	4.163	96.802	1.00 40.00
ATOM	115 0	THR	15	55.565	4.122	97.916	1.00 40.00
MOTA	116 N	GLN	16	54.822	3.059	96.067	1.00 40.00
MOTA	117 CA		16	55.300	1.792 0.712	96.521 96.597	1.00 40.00
MOTA MOTA	118 CB		16 16	54.203 54.696	-0.650	97.095	1.00 40.00
MOTA	120 CE		16	53.502	-1.591	97.151	1.00 40.00
ATOM	121 OE		16	52.753	-1.725	96.185	1.00 40.00
MOTA	122 NE		16	53.315	-2.259	98.323	1.00 40.00
ATOM	123 C	GLN	16	56.297 55.946	1.366 1.054	95.502 94.365	1.00 40.00
MOTA MOTA	124 O 125 N	GLN LEU	16 17	57.586	1.354	95.886	1.00 60.00
MOTA	126 CF		17	58.593	0.969	94.950	1.00 60.00
ATOM	127 CE	B LEU	17	60.017	1.078	95.513	1.00 60.00
MOTA	128 CG		17	60.457	2.521	95.825	1.00 60.00 1.00 60.00
MOTA	129 CI 130 CI		17 17	61.887 60.267	2.562 3.436	96.384 94.605	1.00 60.00
MOTA MOTA	130 CI	LEU	17	58.338	-0.456	94.601	1.00 60.00
MOTA	132 0	LEU	17	58.466	-0.857	93.446	1.00 60.00
MOTA	133 N	GLY	18	57.948	-1.256	95.608	1.00 60.00 1.00 60.00
ATOM	134 CA		18 18	57.715 58.423	-2.643 -3.369	95.367 96.455	1.00 60.00
ATOM ATOM	135 C 136 O	GLY GLY	18	58.034	-3.308	97.620	1.00 60.00
ATOM	137 N	THR	19	59.502	-4.079	96.088	1.00 60.00
ATOM	138 C		19	60.271	-4.800	97.051	1.00 60.00
MOTA	139 CI		19	61.451	-5.495	96.444 95.462	1.00 60.00
MOTA		G1 THR G2 THR	19 19	61.020 62.219	-6.425 -6.222		1.00 60.00
ATOM ATOM	141 C	THR	19	60.785	-3.785		1.00 60.00
MOTA	143 0		19	60.907	-4.051	99.209	1.00 60.00
MOTA	144 N		20	61.089	-2.580		1.00 60.00
ATOM	145 C		20 20	61.604 61.723	-1.517 -0.186		1.00 60.00
MOTA MOTA	146 C		20	62.734	-0.186		1.00 60.00
ATOM		D1 PHE	20	64.078	-0.257		
ATOM		D2 PHE	20	62.345	-0.708	95.186	1.00 60.00
MOTA		E1 PHE	20	65.015	-0.445		
ATOM		E2 PHE	20 20	63.278 64.617	-0.897 -0.765		
ATOM ATOM	152 C 153 C		20	60.684	-1.332		
ATOM	154 0		20	59.555	-1.819		

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D III COLV	155 1	N GLU	21	61.184	-0.640 100.514	1.00 60.00
MOTA MOTA		CA GLU	21		-0.440 101.743	1.00 60.00
ATOM ATOM		CB GLU	21	61.314	0.262 102.821	1.00 60.00
ATOM		CG GLU	21		-0.629 103.393	1.00 60.00
ATOM		CD GLU	21		-0.846 102.306	1.00 60.00
ATON:		OE1 GLU	21	63.930	0.172 101.730	1.00 60.00
ATOM.	-	OE2 GLU	21	63.798	-2.029 102.033	1.00 60.00
ATOM:		C GLU	21	59.239	0.374 101.517	1.00 60.00
ATOM		O GLU	21	58.224	0.142 102.170	1.00 60.00
ATOM		n ASP	22	59.284	1.356 100.600	1.00 60.00
ATOM:		CA ASP	22	58.127	2.184 100.414	1.00 60.00
ATOM		CB ASP	22	58.301	3.259 99.327	1.00 60.00
MOTA	167	CG ASP	22	59.249	4.315 99.878	1.00 60.00
MOTA:	168	OD1 ASP	22	59.322	4.443 101.129	1.00 60.00
ATOM	169	OD2 ASP	22	59.909	5.007 99.058	1.00 60.00
MOTA		C ASP	22	56.961	1.325 100.044	1.00 60.00
ATOM		O ASP	22	57.073	0.405 99.235	1.00 60.00 1.00 40.00
ATOM:		N HIS	23	55.803	1.615 100.670	1.00 40.00
MOTA	173	CA HIS	23	54.586	0.892 100.442 -1.838 101.876	1.00 40.00
MOTA	174	ND1 HIS	23	56.474	-2.977 100.017	1.00 40.00
ATOM	175	NE2 HIS	23	56.905 57.266	-2.757 101.268	1.00 40.00
ATOM	176	CE1 HIS	23 23	55.817	-2.148 99.817	1.00 40.00
ATOM	177	CD2 HIS	23	55.539	-1.442 100.947	1.00 40.00
MOTA	178	CG HIS	23	54.466	-0.431 101.225	1.00 40.00
ATOM	179		23	53.501	1.752 101.002	1.00 40.00
ATOM	180	C HIS	23	53.574	2.979 100.966	1.00 40.00
ATOM	181	N PHE	24	52.456	1.096 101.537	1.00 40.00
MOTA	182 183	CA PHE	24	51.390	1.781 102.206	1.00 40.00
ATOM ATOM	184	CB PHE	24	50.221	0.874 102.641	1.00 40.00
ATOM	185	CG PHE	24	50.686	-0.092 103.676	1.00 40.00
ATOM	186	CD1 PHE	24	51.333	-1.248 103.312	1.00 40.00
ATOM	187	CD2 PHE	24	50.456	0.154 105.011	1.00 40.00
ATOM	188	CE1 PHE	24	51.755	-2.140 104.269	1.00 40.00
ATOM	189	CE2 PHE	24	50.876	-0.735 105.971	1.00 40.00
ATOM	190	CZ PHE	24	51.528	-1.885 105.600	1.00 40.00
MOTA	191	C PHE	24	51.973	2.437 103.414	1.00 40.00
MOTA	192	O PHE	24	51.413	3.393 103.945	1.00 40.00
MOTA	193	N LEU	25	53.137	1.940 103.864	1.00 40.00
ATOM	194	CA LEU	25	53.809	2.441 105.027 1.807 105.203	1.00 40.00
ATOM	195	CB LEU	25	55.201 55.972	1.807 105.203 2.301 106.441	1.00 40.00
ATOM	196	CG LEU	25	55.274	1.867 107.740	1.00 40.00
MOTA	197	CD1 LEU	25 25	57.450	1.880 106.387	1.00 40.00
MOTA	198	CD2 LEU C LEU	25	54.004	3.919 104.842	1.00 40.00
ATOM	199 200	C LEU	25	53.972	4.680 105.808	1.00 40.00
ATOM	201	N SER	26	54.210	4.353 103.587	1.00 40.00
ATOM ATOM	201	CA SER	26	54.437	5.732 103.244	1.00 40.00
ATOM	203	CB SER	26	54.690	5.930 101.740	1.00 40.00
ATOM	204	OG SER	26	55.877	5.257 101.350	1.00 40.00
ATOM	205	C SER	26	53.231	6.550 103.603	1.00 40.00
ATOM	206	O SER	26	53.340	7.745 103.875	1.00 40.00
ATOM	207	N LEU	27	52.050	5.910 103.620	1.00 40.00
ATOM	208	CA LEU	27	50.763	6.522 103.842	1.00 40.00
MOTA	209	CB LEU	27	49.630	5.478 103.835	1.00 40.00
MOTA	210	CG LEU	27	49.489	4.723 102.500	1.00 40.00
MOTA	211	CD1 LEU	27	48.353	3.693 102.558	
ATOM	212	CD2 LEU	27	49.347 50.727	5.696 101.321 7.196 105.183	1.00 40.00
ATOM	213	C LEU	27		8.151 105.379	
MOTA	214	O LEU N GLN	27 28	49.977 51.536	6.712 106.139	
MOTA	215	N GLN CA GLN	28	51.542	7.178 107.498	
ATOM	216 217	CB GLN	28	52.603	6.451 108.345	
ATOM ATOM	218	CG GLN	28	54.035	6.691 107.858	
ATOM	219	CD GLN	28	54.993	5.910 108.749	
ATOM	220	OE1 GLN	28	56.205	5.934 108.543	1.00 40.00
ATOM	221	NE2 GLN	28	54.437	5.195 109.764	
ATOM	222	C GLN	28	51.825	8.649 107.578	
ATOM	223	O GLN	28	51.263	9.341 108.426	
ATOM	224	N ARG	29	52.677	9.183 106.688	
ATOM	225	ca arg	29	53.065	10.561 106.792	
MOTA	226	CB ARG	29	54.017	11.010 105.670	
ATOM	227	CG ARG	29	55.395		
ATOM	228	CD ARG	29	56.453		
MOTA	229	NE ARG	29 29	56.118		
MOTA	230	CZ ARG NH1 ARG	29 29	56.967 58.110		
ATOM	231	MIT ING		50.110	# -	

ATOM	1							
ATOM 233 C ARG 29 51.854 11.439 106.757 1.00 40.00 ATOM 235 N MET 30 50.818 11.033 106.009 1.00 40.00 ATOM 235 N MET 30 49.654 11.851 105.844 1.00 40.00 ATOM 237 CE MET 30 48.563 11.211 104.944 1.00 40.00 ATOM 237 CE MET 30 48.563 11.211 104.944 1.00 40.00 ATOM 239 SD MET 30 49.009 11.014 103.496 1.00 40.00 ATOM 239 SD MET 30 47.706 10.321 102.425 1.00 40.00 ATOM 239 SD MET 30 47.706 10.321 102.425 1.00 40.00 ATOM 241 C MET 30 47.564 8.7548 8.743 103.316 1.00 40.00 ATOM 241 C MET 30 48.569 12.114 107.148 1.00 40.00 ATOM 241 C MET 30 48.569 12.114 107.148 1.00 40.00 ATOM 242 O MET 30 48.599 12.114 107.148 1.00 40.00 ATOM 241 C MET 30 48.599 12.114 107.148 1.00 40.00 ATOM 242 O MET 30 48.599 12.114 107.148 1.00 40.00 ATOM 243 N PHE 31 48.890 11.127 1109.042 1.00 40.00 ATOM 243 N PHE 31 48.899 10.049 110.136 1.00 40.00 ATOM 247 CDI PHE 31 48.899 10.049 110.136 1.00 40.00 ATOM 247 CDI PHE 31 48.899 10.049 110.136 1.00 40.00 ATOM 247 CDI PHE 31 48.899 10.049 110.136 1.00 40.00 ATOM 247 CDI PHE 31 48.695 1.0770 111.210 1.00 40.00 ATOM 249 CEI PHE 31 48.695 1.0770 111.210 1.00 40.00 ATOM 249 CEI PHE 31 48.695 1.0770 111.210 1.00 40.00 ATOM 249 CEI PHE 31 48.695 1.0770 111.210 1.00 40.00 ATOM 249 CEI PHE 31 48.695 1.0770 111.210 1.00 40.00 ATOM 252 C PHE 31 48.695 1.0781 10.0791 10.00 40.00 ATOM 252 C PHE 31 48.695 1.0791 110.00 10.00 40.00 ATOM 252 C PHE 31 48.695 1.0791 110.00 10.00 40.00 ATOM 252 C PHE 31 48.695 1.0791 110.00 10.00 40.00 ATOM 252 C PHE 31 48.695 1.0791 110.00 10.00 40.00 ATOM 255 CA ASN 32 50.00 ATOM 256 CA ASN 33 50.00 ATOM 256 CA ASN 32 50.00 ATOM 256 CA ASN 32 50.00 ATOM 256 CA ASN 33 50.00 ATOM 256 CA ASN 33 50.00 ATOM 257 CA ASN 32 50.00 ATOM 257 CA ASN 32 50.00 ATOM 257 CA A	MOTA	232	NH2	284	29	56 677	10 641 101 152	1 00 40.00
ATOM								
ATOM 236 CA MET 30 49.654 11.851 105.844 1.00 40.00 ATOM ATOM 237 CB MET 30 48.559 11.211 104.944 1.00 40.00 ATOM ATOM 238 CG MET 30 49.009 11.014 103.490 1.00 40.00 ATOM ATOM 239 SD MET 30 47.708 11.211 104.1944 1.00 40.00 ATOM ATOM 240 CE MET 30 47.708 11.211 104.1941 1.00 40.00 ATOM ATOM 240 CE MET 30 47.708 18.31 10.321 10.245 1.00 40.00 ATOM ATOM 241 C MET 30 48.969 12.114 107.148 1.00 40.00 ATOM ATOM 242 O MET 30 48.969 12.114 107.148 1.00 40.00 ATOM ATOM 244 CA PHE 31 48.880 11.121 108.042 1.00 40.00 ATOM 244 CA PHE 31 48.090 10.049 110.136 1.00 40.00 ATOM 244 CA PHE 31 48.090 10.049 110.136 1.00 40.00 ATOM 246 CG PHE 31 47.539 10.049 110.136 1.00 40.00 ATOM 246 CG PHE 31 47.539 10.049 110.136 1.00 40.00 ATOM 247 CDI PHE 31 47.539 10.974 112.291 1.00 40.00 ATOM 248 CDZ PHE 31 45.875 9.770 111.210 1.00 40.00 ATOM 249 CIZ PHE 31 44.6663 11.373 113.433 1.00 40.00 ATOM 250 CEZ PHE 31 44.663 11.373 113.33 1.00 40.00 ATOM 251 CZ PHE 31 44.663 11.373 113.361 1.00 40.00 ATOM 252 C PHE 31 44.955 9.964 112.248 1.00 40.00 ATOM 252 C PHE 31 44.955 9.964 112.248 1.00 40.00 ATOM 252 C PHE 31 48.418 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.188 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.188 12.243 110.010 1.00 40.00 ATOM 255 CG ASN 32 50.034 13.538 111.552 1.00 40.00 ATOM 255 CG ASN 32 50.034 13.538 111.352 1.00 40.00 ATOM 255 CG ASN 32 50.034 13.638 111.352 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.367 13.407 112.087 1.00 40.00 ATOM 256 CG ASN 32 51.368 112.2223 113.346 1.00 40.00 ATOM 256 CG ASN 32 51.368 113.839 113.40 1.00 40.00 ATOM 256 CG ASN 32 51.368 113.839 113.40 1.00 40.00 ATOM 256 CG ASN 33 51.368 113.839 113.40 1.00 40.00 ATOM 256 CG ASN 33 51.368 113.839 113.40 1.00 40.00 ATOM 256 CG ASN 33 52.255 1								
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ATOM 238 CG MET 30 49.009 11.014 103.490 1.00 40.00 40.00 ATOM 240 CE MET 30 47.708 10.321 102.425 1.00 40.00 ATOM 241 C MET 30 47.708 10.321 102.425 1.00 40.00 ATOM 241 C MET 30 48.969 12.114 107.148 1.00 40.00 ATOM 242 O MET 30 48.969 12.114 107.148 1.00 40.00 ATOM 242 O MET 30 48.969 11.112 109.198 1.00 40.00 ATOM 242 C MET 30 48.969 11.1121 109.198 1.00 40.00 ATOM 245 CB PHE 31 48.880 11.122 109.198 1.00 40.00 ATOM 245 CB PHE 31 48.099 10.049 110.136 1.00 40.00 ATOM 245 CB PHE 31 48.099 10.049 110.136 1.00 40.00 ATOM 246 CB PHE 31 47.538 10.974 112.279 11.00 40.00 ATOM 247 CD PHE 31 47.538 10.974 112.391 1.00 40.00 ATOM 248 CD2 PHE 31 47.538 10.974 112.391 1.00 40.00 ATOM 249 CEI PHE 31 45.955 9.770 111.210 1.00 40.00 ATOM 250 CEZ PHE 31 45.965 9.770 111.210 1.00 40.00 ATOM 251 CZ PHE 31 44.955 9.964 112.248 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.695 1.373 113.360 1.00 40.00 ATOM 252 C PHE 31 48.686 11.373 113.360 1.00 40.00 ATOM 252 C PHE 31 48.686 11.373 113.360 1.00 40.00 ATOM 252 C PHE 31 48.686 11.373 113.360 1.00 40.00 ATOM 255 CB ASN 32 49.662 12.554 110.513 1.00 40.00 ATOM 255 CB ASN 32 49.662 12.554 110.513 1.00 40.00 ATOM 255 CB ASN 32 49.662 12.554 110.513 1.00 40.00 ATOM 256 CB ASN 32 49.652 12.554 110.513 1.00 40.00 ATOM 256 CB ASN 32 50.034 113.698 110.352 1.00 40.00 ATOM 256 CB ASN 32 50.034 113.698 110.352 1.00 40.00 ATOM 256 CB ASN 32 50.034 113.699 113.140 1.00 40.00 ATOM 256 CB ASN 32 50.034 113.699 113.140 1.00 40.00 ATOM 256 CB ASN 32 50.034 11.00 40.00 ATOM 256 CB ASN 32 50.034 11.00 40.00 ATOM 256 CB ASN 32 50.034 11.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256 CB ASN 33 50.899 14.719 109.396 1.00 40.00 ATOM 256	MOTA	236	CA	MET	30		11.851 105.844	1.00 40.00
ATOM	MOTA		CB	MET	30			
ATOM 240 CE MET 30 48.959 12.114 107.148 1.00 40.00 ATOM 241 C MET 30 48.959 12.114 107.148 1.00 40.00 ATOM 242 0 MET 30 48.959 12.114 107.148 1.00 40.00 ATOM 242 0 MET 30 48.969 11.112 109.198 1.00 40.00 ATOM 244 CA PHE 31 48.880 11.121 109.198 1.00 40.00 ATOM 245 CB PHE 31 48.099 10.049 110.136 1.00 40.00 ATOM 246 CB PHE 31 48.099 10.049 110.136 1.00 40.00 ATOM 246 CB PHE 31 47.538 10.974 112.279 11.00 40.00 ATOM 248 CD2 PHE 31 47.538 10.974 112.391 1.00 40.00 ATOM 249 CEI PHE 31 45.975 9.770 111.210 1.00 40.00 ATOM 250 CEZ PHE 31 45.975 9.770 111.210 1.00 40.00 ATOM 251 CZ PHE 31 44.955 9.964 112.248 1.00 40.00 ATOM 251 CZ PHE 31 44.955 9.964 112.248 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.488 12.473 110.010 1.00 40.00 ATOM 252 C PHE 31 48.495 9.964 112.248 1.00 40.00 ATOM 255 CB ASN 32 49.662 12.554 110.513 1.00 40.00 ATOM 255 CB ASN 32 49.662 12.554 110.513 1.00 40.00 ATOM 256 CB ASN 32 50.034 13.638 111.352 1.00 40.00 ATOM 257 CG ASN 32 50.034 13.638 111.352 1.00 40.00 ATOM 258 ODI ASN 32 51.202 111.639 113.140 1.00 40.00 ATOM 258 ODI ASN 32 51.202 111.639 113.140 1.00 40.00 ATOM 260 C ASN 32 50.255 14.877 110.543 1.00 40.00 ATOM 261 C ASN 32 50.255 14.877 110.543 1.00 40.00 ATOM 262 N ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 262 N ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 266 CD ASN 33 50.889 14.719 109.396 1.00 40.00 ATOM 267 ND 270								
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ATOM 248 CD2 PHE 31								
ARTOM 249 CEL PHE 31	ATOM	247	CD1		31	47.538	10.974 112.391	1.00 40.00
ARTOM 250 CE2 PHE 31	MOTA	248	CD2	PHE	31	45.875	9.770 111.210	1.00 40.00
ARTOM 251 CZ PHE 31								
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ATOM 307 N GLY 39 49.246 21.238 97.807 1.00 20.00	MOTA	305	С			49.954	21.706 98.848	
ATOM 308 CA GLI 39 49.892 20.609 96.695 1.00 20.00								
	ATOM	308	CA	GLI	27	49.892	∠0.609 96.695	1.00 20.00

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	500 0 011	3.0	48.980	19.511	96.266	1.00 20.00
ATOM	309 C GLY	39	47.761	19.640	96.353	1.00 20.00
MOTA	310 O GLY	39	49.540	18.388	95.786	1.00 20.00
ATOM	311 N ASK	40			95.780	1.00 20.00
MOTA	312 CA ASN	40	48.656	17.340		
ATOM	313 CB ASN	40	48.718	17.020	93.865	1.00 20.00
ATOM	314 CG ASN	40	50.125	16.561	93.514	1.00 20.00
ATOM	315 OD1 ASN	40	51.081	17.331	93.595	1.00 20.00
ATOM	316 ND2 ASN	40	50.259	15.270	93.110	1.00 20.00
ATOM	317 C ASN	40	48.984	16.095	96.124	1.00 20.00
ATOM	318 O ASN	40	50.032	15.982	96.761	1.00 20.00
ATOM	319 N LEU	41	48.040	15.135	96.090	1.00 20.00
ATOM	320 CA LEU	41	48.211	13.866	96.729	1.00 20.00
ATOM	321 CB LEU	41	47.102	13.532	97.738	1.00 20.00
ATOM	322 CG LEU	41	47.176	12.079	98.237	1.00 20.00
	323 CD1 LEU	41	48.519	11.797	98.922	1.00 20.00
ATOM	323 CD1 LEU	41	45.965	11.721	99.113	1.00 20.00
MOTA	325 C LEU	41	48.146	12.816	95.675	1.00 20.00
MOTA		41	47.188	12.755	94.907	1.00 20.00
ATOM		42	49.180	11.958	95.595	1.00 20.00
ATOM	327 N GLU	42	49.093	10.909	94.627	1.00 20.00
MOTA	328 CA GLU		49.996	11.122	93.398	1.00 20.00
MOTA	329 CB GLU	42		11.319	93.740	1.00 20.00
MOTA	330 CG GLU	42	51.469		92.496	1.00 20.00
ATOM	331 CD GLU	42	52.188	11.817	91.962	1.00 20.00
MOTA	332 OE1 GLU	42	51.772	12.880		1.00 20.00
MOTA	333 OE2 GLU	42	53.162	11.146	92.065	
MOTA	334 C GLU	42	49.431	9.626	95.303	1.00 20.00
MOTA	335 O GLU	42	50.470	9.502	95.950	1.00 20.00
ATOM	336 N ILE	43	48.523	8.636	95.195	1.00 20.00
ATOM	337 CA ILE	43	48.778	7.367	95.806	1.00 20.00
MOTA	338 CB ILE	43	47.667	6.928	96.716	1.00 20.00
MOTA	339 CG2 ILE	43	47.999	5.514	97.220	1.00 20.00
MOTA	340 CG1 ILE	43	47.473	7.939	97.859	1.00 20.00
ATOM	341 CD1 ILE	43	48.669	8.039	98.804	1.00 20.00
ATOM	342 C ILE	43	48.870	6.372	94.692	1.00 20.00
MOTA	343 O ILE	43	47.857	5.962	94.131	1.00 20.00
ATOM	344 N THR	44	50.096	5.931	94.350	1.00 20.00
ATOM	345 CA THR	44	50.230	5.040	93.234	1.00 20.00
ATOM	346 CB THR	44	51.275	5.477	92.252	1.00 20.00
ATOM	347 OG1 THR	44	52.554	5.488	92.868	1.00 20.00
ATOM	348 CG2 THR	44	50.919	6.887	91.751	1.00 20.00
ATOM	349 C THR	44	50.627	3.678	93.719	1.00 20.00
ATOM	350 O THR	44	51.282	3.535	94.751	1.00 20.00
ATOM	351 N TYR	45	50.196	2.652	92.951	1.00 20.00
ATOM	352 CA TYR	45	50.417	1.237	93.111	1.00 20.00
ATOM	353 CB TYR	45	51.491	0.631	92.188	1.00 20.00
ATOM	354 CG TYR	45	51.489	-0.836	92.465	1.00 20.00
ATOM	355 CD1 TYR	45	50.437	-1.612	92.032	1.00 20.00
ATOM	356 CD2 TYR	45	52.526	-1.444	93.138	1.00 20.00
MOTA	357 CEL TYR	45	50.410	-2.964	92.277	1.00 20.00
ATOM	358 CE2 TYR	45	52.505	-2.797	93.385	1.00 20.00
ATOM	359 CZ TYR	45	51.445	-3.559	92.956	1.00 20.00
ATOM	360 OH TYR	45	51.417	-4.947	93.208	1.00 20.00
MOTA	361 C TYR	45	50.743	0.867	94.520	1.00 20.00
MOTA	362 O TYR	45	51.894	0.594	94.854	1.00 20.00
MOTA	363 N VAL	46	49.732	0.844	95.407	1.00 20.00
	364 CA VAL	46	50.016	0.479	96.764	1.00 20.00
ATOM	365 CB VAL	46	49.911	1.623	97.730	1.00 20.00
ATOM		46	50.093	1.074	99.154	1.00 20.00
ATOM	366 CG1 VAL 367 CG2 VAL	46	50.944	2.694	97.343	1.00 20.00
ATOM		46	49.016	-0.541	97.199	1.00 20.00
ATOM	368 C VAL 369 O VAL	46	47.839	-0.466	96.851	1.00 20.00
MOTA		47	49.477	-1.542	97.975	1.00 20.00
ATOM		47	48.569	-2.528	98.483	1.00 20.00
MOTA	371 CA GLN		48.926		98.083	1.00 20.00
MOTA	372 CB GLN	47 47	48.819	-3.970 -4.242	96.583	1.00 20.00
ATOM	373 CG GLN	47			96.348	1.00 20.00
MOTA	374 CD GLN	47	49.200 48.564	-6.618	96.862	1.00 20.00
MOTA	375 OE1 GLN					1.00 20.00
ATOM	376 NE2 GLN	47	50.278	-5.916	95.548	
ATOM	377 C GLN	47	48.663		99.970	1.00 20.00
ATOM	378 O GLN	47	49.711	-2.745		1.00 20.00
ATOM	379 N ARG	48	47.560			1.00 20.00
MOTA	380 CA ARG	48	47.582			1.00 20.00
ATOM	381 CB ARG		47.560			1.00 20.00
ATOM	382 CG ARG		47.599		104.151	1.00 20.00
ATOM	383 CD ARG		47.632		104.688	
ATOM	384 NE ARG		47.664		106.177	
MOTA	385 CZ ARG	48	48.202	1.890	106.903	1.00 20.00

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1.000	20 -	A::112	NDC	48	48.705	2.987 106.265	1.00 20.00
ATOM ATOM	386 387	NH1 NH2	ARG	48	48.230	1.827 108.266	1.00 20.00
ATOM	388	C	ARG	48	46.342	-2.704 102.530	1.00 20.00
ATOM	389	Õ	ARG	48	45.269	-2.511 101.962	1.00 20.00
ATOM	390	N	ASN	49	46.464	-3.543 103.574	1.00 40.00
ATOM	391	CA	ASN	49	45.300	-4.204 104.078	1.00 40.00
ATOM:	392	CB	ASN	49	45.602	-5.162 105.245	1.00 40.00
ATOM	393	CG	ASN	49	44.344	-5.978 105.516	1.00 40.00
ATOM:	394	OD1	ASN	49	43.342	-5.841 104.817	1.00 40.00
ATON:	395	ND2	ASN	49	44.389	-6.842 106.566	1.00 40.00
ATOM	396	C	ASN	49	44.423	-3.124 104.605	1.00 40.00
ATOM	397	ō	ASN	49	43.213	-3.115 104.383	1.00 40.00
ATOY:	398	N	TYR	50	45.046	-2.163 105.310	1.00 40.00
ATO::	399	CA	TYR	50	44.329	-1.062 105.873	1.00 40.00
ATO:	400	CB	TYR	50	45.065	-0.385 107.039	1.00 40.00
ATOM	401	CG	TYR	50	45.065	-1.389 108.139	1.00 40.00
ATOM	402	CD1	TYR	50	43.945	-1.550 108.921	1.00 40.00
ATOM	403	CD2	TYR	50	46.170	-2.169 108.386	1.00 40.00
ATOM:	404	CE1	TYR	50	43.922	-2.473 109.939	1.00 40.00
MOTA!	405	CE2	TYR	50	46.155	-3.095 109.403	1.00 40.00
ATOM:	406	CZ	TYR	50	45.030	-3.247 110.181	1.00 40.00
ATOM	407	он	TYR	50	45.011	-4.197 111.224	1.00 40.00
MOTA	408	С	TYR	50	44.098	-0.071 104.787	1.00 40.00
ATOM	409	0	TYR	50	44.522	-0.271 103.650 1.022 105.110	1.00 40.00 1.00 40.00
ATOM.	410	N	ASP	51	43.384		1.00 40.00
ATON:	411	CA	ASP	51	43.064 41.552	1.961 104.081 2.120 103.854	1.00 40.00
ATO::	412	CB	ASP	51	41.029	0.814 103.272	1.00 40.00
ATO:	413	CG	ASP	51 51	41.865	-0.089 102.997	1.00 40.00
MOTA	414	OD1	ASP ASP	51 51	39.787	0.701 103.095	1.00 40.00
MOTA MOTA	415 416	C	ASP	51	43.603	3.307 104.437	1.00 40.00
	417	0	ASP	51	44.260	3.501 105.458	1.00 40.00
ATOM ATOM	418	N	LEU	52	43.326	4.261 103.530	1.00 40.00
ATOM	419	CA	LEU	52	43.698	5.646 103.552	1.00 40.00
ATOM.	420	СВ	LEU	52	43.336	6.381 102.252	1.00 40.00
ATOM	421	CG	LEU	52	44.104	5.860 101.024	1.00 40.00
ATOM	422	CD1		52	43.732	4.403 100.706	1.00 40.00
ATOM	423	CD2		52	43.931	6.799 99.821	1.00 40.00
ATON	424	С	LEU	52	42.980	6.329 104.672	1.00 40.00
ATOM	425	0	LEU	52	43.418	7.367 105.163	1.00 40.00
MOTA	426	N	SER	53	41.876	5.719 105.135	1.00 40.00
ATOM	427	CA	SER	53	40.953	6.292 106.070	1.00 40.00
ATOM	428	CB	SER	53	39.951	5.261 106.618	1.00 40.00
MOTA	429	OG	SER	53	40.631	4.269 107.373	1.00 40.00
ATOM	430	C	SER	53	41.684	6.865 107.239 7.794 107.873	1.00 40.00
ATOM	431	0	SER	53	41.186	7.794 107.873 6.345 107.561	1.00 40.00
ATOM	432	N	PHE	54 54	42.881 43.588	6.840 108.706	1.00 40.00
MOTA	433 434	CA CB	PHE PHE	54	44.964	6.180 108.931	1.00 40.00
MOTA MOTA	435	CG	PHE	54	45.821	6.394 107.731	1.00 40.00
MOTA	436	CDI		54	46.628	7.502 107.624	1.00 40.00
ATOM	437	CD2		54	45.819	5.475 106.709	
ATOM	438	CEI		54	47.418	7.686 106.511	1.00 40.00
ATOM:	439	CE 2		54	46.605	5.651 105.595	1.00 40.00
ATOM	440	CZ	PHE	54	47.407	6.760 105.494	
ATOM	441	С	PHE	54	43.779	8.321 108.578	
ATOM	442	0	PHE	54	43.763	9.023 109.588	
ATOM	443	N	LEU	55	43.976	8.845 107.352	
ATOM	444	CA	LEU	55	44.137	10.268 107.216	
ATOM:	445		LEU	55	44.704	10.676 105.847	
ATOM:	446		LEU	55	44.884	12.193 105.681	
MOTA	447			55	45.897	12.750 106.696	
MOTA	448			55 55	45.243	12.549 104.232 10.895 107.360	
ATOM	449		LEU	55 55	42.784	11.322 106.384	
ATOM:	450		LEU LYS	55 56	42.167 42.295	10.952 108.613	
ATOM ATOM	451 452		LYS	56	41.021	11.494 108.983	
ATOM	452		LYS	56	40.684	11.190 110.451	
ATOM ATOM	454		LYS	56	39.337	11.745 110.910	
ATOM:	455		LYS	56	38.977	11.337 112.341	
ATOM	456		LYS	56	39.847	12.023 113.398	
ATOM	457		LYS	56	39.445	11.587 114.75	
ATOM	458		LYS	56	41.024	12.987 108.85	
ATOM	459		LYS	56	40.057	13.582 108.382	2 1.00 40.00
ATOM	460		THR	57	42.138	13.618 109.27	
MOTA	461			57	42.263		
ATOM	462	CB	THR	57	43.574	15.452 110.00	1.00 20.00

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			mun	57	43.716	14.887	111.300	1.00 20.00
ATOM	463	OG1	THR	57	43.710		110.088	1.00 20.00
MOTA	464	CG2	THR	57	42.147		108.095	1.00 20.00
MOTA	465	С	THR				108.044	1.00 20.00
ATOM	466	0	THE	57	41.559		107.001	1.00 20.00
ATOM	467	N	ILE	58	42.691 42.752		105.774	1.00 20.00
ATOM	468	CA	ILE	58			104.651	1.00 20.00
ATOM	469	CB	ILE	58	43.416		104.851	1.00 20.00
MOTA	470	CG2	ILE	58	42.628	13.911		1.00 20.00
MOTA	471	CG1	ILE	58	43.605		103.437	1.00 20.00
ATOM	472	CD1	ILE	58	44.543	15.551	102.377	1.00 20.00
MOTA	473	С	ILE	58	41.407	16.442	105.323	
MOTA	474	0	ILE	58	40.596		104.777	1.00 20.00
MOTA	475	N	GLN	59	41.124	17.731	105.614	1.00 20.00
ATOM	476	CA	GLN	59	39.940	18.413	105.171	1.00 20.00
ATOM	477	CB	GLN	59	39.586	19.650	106.016	1.00 20.00
MOTA	478	CG	GLN	59	39.114	19.318	107.433	1.00 20.00
MOTA	479	CD	GLN	59	38.798	20.630	108.139	1.00 20.00
MOTA	480	OE1	GLN	59	37.646	20.908	108.470	1.00 20.00
MOTA	481	NE2	GLN	59	39.846	21.464	108.372	1.00 20.00
MOTA	482	С	GLN	59	40.087	18.883	103.753	1.00 20.00
ATOM	483	0	GLN	59	39.119	18.885	102.994	
ATOM	484	N	GLU	60	41.302	19.315	103.351	1.00 20.00
ATOM	485	CA	GLU	60	41.406	19.919	102.052	1.00 20.00
MOTA	486	CB	GLU	60	41.582	21.445	102.130	
MOTA	487	CG	GLU	60	40.426	22.179	102.808	1.00 20.00
ATOM	488	CD	GLU	60	40.902	23.592	103.121	1.00 20.00
ATOM	489	OE1	GLU	60	42.013	23.957	102.650	1.00 20.00
ATOM	490	OE2		60	40.168	24.323	103.840	1.00 20.00
MOTA	491	С	GLU	60	42.625		101.339	1.00 20.00
MOTA	492	0	GLU	60	43.535	18.854 19.617	100.003	1.00 20.00
MOTA	493	N	VAL	61	42.623 43.739	19.371	99.139	1.00 20.00
ATOM	494	CA	VAL	61 61	43.618	18.104	98.346	1.00 20.00
ATOM	495	CB	VAL VAL	61	44.815	18.008	97.386	1.00 20.00
ATOM	496 497	CG1 CG2		61	43.510	16.923	99.326	1.00 20.00
ATOM ATOM	498	C	VAL	61	43.663	20.512	98.175	1.00 20.00
ATOM	499	o	VAL	61	42.629	20.706	97.541	1.00 20.00
ATOM	500	N	ALA	62	44.739	21.307	98.028	1.00 20.00
ATOM	501	CA	ALA	62	44.601	22.467	97.194	1.00 20.00
ATOM	502	СВ	ALA	62	45.522	23.621	97.628	1.00 20.00
ATOM	503	С	ALA	62	44.949	22.139	95.778	1.00 20.00
ATOM	504	0	ALA	62	45.261	23.037	94.998	1.00 20.00
MOTA	505	Ν	GLY	63	44.913	20.849	95.400	1.00 20.00
ATOM	506	CA	GLY	63	45.218	20.512	94.039	1.00 20.00
ATOM	507	С	GLY	63	44.232	19.500	93.561	1.00 20.00
ATOM	508	0	GLY	63	43.030	19.748		1.00 20.00
ATOM	509	N	TYR	64	44.743	18.311	93.190	1.00 20.00
MOTA	510	CA	TYR	64	43.878	17.267		1.00 20.00
MOTA	511	CB	TYR	64	43.952	17.027 16.458		1.00 20.00
ATOM	512	CG	TYR	64	45.282 46.437	17.086		1.00 20.00
ATOM	513	CDI		64 64	45.375	15.321		1.00 20.00
ATOM ATOM	514 515	CD2		64	47.666	16.569		1.00 20.00
ATOM	516	CE		64	46.603	14.803		1.00 20.00
MOTA	517	CZ.	TYR	64	47.754	15.422		1.00 20.00
ATOM	518	ОН	TYR	64	49.014	14.890		1.00 20.00
ATOM	519	C	TYR	64	44.285	16.029		1.00 20.00
ATOM	520	Ō	TYR	64	45.341	15.991	94.083	1.00 20.00
MOTA	521	N	VAL	65	43.422	14.996		1.00 20.00
ATOM	522	CA	VAL	65	43.773	13.787	94.112	1.00 20.00
ATOM	523		VAL	65	42.806	13.411	95,195	1.00 20.00
MOTA	524	CG:	1 VAL	65	41.422	13.221		1.00 20.00
ATOM	525	CG:	2 VAL	65	43.342	12.159		1.00 20.00
MOTA	526	С	VAL	65	43.821	12.671		1.00 20.00
ATOM	527	0	VAL	65	42.893	12.479		1.00 20.00
ATOM	528		LEU	66	44.934	11.906		1.00 20.00
MOTA	529		LEU	66	45.043	10.791		1.00 20.00
ATOM	530		LEU	66	46.320	10.774		1.00 20.00
ATOM	531			66 66	46.450 47.728	11.929		1.00 20.00
MOTA	532		1 LEU	66 6 6	47.728	12.092		
ATOM	533		2 LEU LEU	66	45.142	9.55		
ATOM ATOM	534 535		LEU	66	45.964	9.47		1.00 20.00
ATOM ATOM	536		ILE	67	44.301	8.54		1.00 20.00
MOTA	537		_	67	44.414	7.35		
ATOM	538			67	43.344	7.22	3 94.576	1.00 20.00
ATOM	539		2 ILE	67	41.980	7.10	8 93.873	1.00 20.00

Figure 6 (continued)

	5 (0 CC1 TIC	67	43.670	6.062 95.53	0 1.00 20.00
ATOM	540 CG1 ILE	67	42.805	6.050 96.78	
ATOM	541 CD1 ILE		44.326	6.156 92.63	
ATOM	542 C ILE	67			
ATON:	543 O ILE	67	43.429	6.036 91.80	
MOTA	544 N ALA	68	45.306	5.248 92.78	
ATOM	545 CA ALA	68	45.292	3.994 92.09	
MOTA	546 CB ALA	68	46.147	3.983 90.81	
MOTA	547 C ALA	68	45.906	3.023 93.05	
MOTA	548 O ALA	68	47.087	3.150 93.37	
MOTA	549 N LEU	69	45.135	2.029 93.55	
ATOM.	550 CA LEU	69	45.680	1.141 94.5	
ATOM	551 CB LEU	69	45.501	1.657 95.98	31 1.00 40.00
MOTA	552 CG LEU	69	46.280	2.945 96.33	17 1.00 40.00
ATOM	553 CD1 LEU	69	46.035	3.378 97.7	74 1.00 40.00
ATOM	554 CD2 LEU	69	47.775	2.793 96.0	00 1.00 40.00
ATOM	555 C LEU	69	44.949	-0.160 94.4	95 1.00 40.00
ATOM	556 O LEU	69	44.091	-0.387 93.6	43 1.00 40.00
ATOM	557 N ASN	70	45.312	-1.065 95.4	30 1.00 40.00
ATOM	558 CA ASN	70	44.673	-2.342 95.5	
MOTA	559 CB ASN	70	45.584	-3.527 95.1	
	560 CG ASN	70	45.968	-3.425 93.7	
MOTA		70	45.513	-2.541 92.9	
ATOM		70	46.838	-4.367 93.2	
ATOM	562 ND2 ASN	70	44.318	-2.510 96.9	
ATOM	563 C ASN				
MOTA	564 O ASN	70	44.758	-1.736 97.8	
ATOM	565 N THR	71	43.470	-3.517 97.2	
MOTA.	566 CA THR	71	43.052	-3.866 98.6	
MOTA	567 CB THR	71	44.152	-4.465 99.4	
ATOM	568 OG1 THR	71	45.227	-3.551 99.5	
ATOM	569 CG2 THR	71	44.640	-5.747 98.7	
ATOM	570 C THR	71	42.444	-2.701 99.3	
ATOM	571 O THR	71	42.100	-2.811 100.5	
MOTA	572 N VAL	72	42.258	-1.558 98.6	
MOTA	573 CA VAL	72	41.644	-0.442 99.3	
MOTA	574 CB VAL	72	42.202	0.880 98.8	
ATOM	575 CG1 VAL	72	41.433	2.002 99.5	
ATOM	576 CG2 VAL	72	43.713	0.883 99.1	
ATOM	577 C VA L	72	40.201	-0.486 98.9	
ATOM	578 O VA L	72	39.857	-0.358 97.7	
ATOM	579 N GLU	73	39.327	-0.717 99.9	
ATOM	580 CA GLU	73	37.915	-0.843 99.7	01 1.00 20.00
ATOM	581 CB GLU	73	37.194	-1.339 100.9	1.00 20.00
MOTA	582 CG GLU	73	37.640	-2.744 101.3	172 1.00 20.00
ATOM	583 CD GLU	73	36.928	-3.110 102.6	
MOTA	584 OE1 GLU	73	36.063	-2.311 103.1	13 1.00 20.00
ATOM	585 OE2 GLU	73	37.239	-4.194 103.2	228 1.00 20.00
ATOM	586 C GLU	73	37.316	0.470 99.3	306 1.00 20.00
ATOM	587 O GLU	73	36.516	0.533 98.3	375 1.00 20.00
ATOM	588 N ARG	74	37.683	1.567 99.9	997 1.00 20.00
MOTA	589 CA ARG	74	37.070	2.827 99.6	85 1.00 20.00
ATOM	590 CB ARG	74	35.789	3.070 100.4	196 1.00 20.00
ATOM	591 CG ARG	74	36.045	3.117 102.0	003 1.00 20.00
ATOM	592 CD ARG	74	34.812	2.787 102.8	345 1.00 20.00
ATOM	593 NE ARG	74	34.771	1.303 102.	979 1.00 20.00
MOTA	594 CZ ARG	74	33.882	0.711 103.	328 1.00 20.00
ATOM	595 NH1 ARG	74	32.999	1.476 104.	
MOTA	596 NH2 ARG	74	33.879	-0.646 103.	
MOTA	597 C ARG	74	38.041	3.891 100.	
MOTA	598 0 ARG	74	39.121	3.600 100.	
ATOM ATOM	599 N ILE	75	37.703	5.166 99.	
ATOM	600 CA ILE	75	38.585	6.208 100.	
ATOM	601 CB ILE	75	39.043	7.136 99.	
ATOM	602 CG2 ILE	75	37.817	7.775 98.	
ATOM	603 CG1 ILE	75	40.071	8.131 99.	
		75	40.836	8.911 98.	
MOTA	604 CD1 ILE 605 C ILE	75	37.853	7.001 101.	
MOTA	_	75	37.671	8.211 101.	
ATOM		76	37.535	6.301 102.	
ATOM		76	36.674	6.739 103.	
ATOM		76	38.383	5.207 102.	
MOTA	609 CD PRO 610 CB PRO	76	36.562	5.541 104.	
MOTA		76	37.957	4.907 104.	
MOTA	611 CG PRO	76	37.213	7.895 104.	
ATOM	612 C PRO	76		8.128 105.	
MOTA	613 O PRO	76	36.616 38.343	8.534 103.	
ATOM	614 N LEU 615 CA LEU	77	38.864	9.725 104.	
ATOM		77	39.775	10.571 103.	
MOTA	616 CB LEU	• •	39.773	10.5/1 105.	1.50 20.00

ATOM	617	CG	LEU	77	41.107	9.897	103.114	1.00 20.00
ATOM	618	CD1	LEU	77	41.968	10.791	102.207	1.00 20.00
ATOM	619	CD2		77	41.848	9.468	104.385	1.00 20.00
ATOM	620	С	LEU	77	37.678	10.573	104.701	1.00 20.00
MOTA	621	0	LEU	77	37.135	11.270	103.847	1.00 20.00
ATOM	622	N	GLU	78	37.263	10.523	105.980	1.00 20.00
ATOM	623	CA	GLU	78	36.010	11.071	106.401	1.00 20.00
ATOM	624	CB	GLU	78	35.733	10.830	107.895	1.00 20.00
MOTA	625	CG	GLU	78	35.522	9.357	108.252	1.00 20.00
ATOM	626	CD	GLU	78	35.263	9.275	109.750	1.00 20.00
ATOM	627	OE1 OE2	GLU GLU	78 78	35.743 34.577	10.178	110.485	1.00 20.00
ATOM ATOM	628 629	C	GLU	78	35.939	8.308 12.545	110.180	1.00 20.00
ATOM	630	0	GLU	78	34.935	13.043	105.683	1.00 20.00
ATOM	631	N	ASN	79	37.005	13.274	106.548	1.00 20.00
ATOM	632	CA	ASN	79	37.018	14.711	106.554	1.00 20.00
ATOM	633	CB	ASN	79	38.156	15.300	107.401	1.00 20.00
ATOM	634	CG	ASN	79	37.761	15.120	108.858	1.00 20.00
MOTA	635	OD1	ASN	79	37.588	14.003	109.343	1.00 20.00
ATOM	636	ND2		79	37.601		109.581	1.00 20.00
ATOM	637	C	ASN	79	37.063	15.387	105.216	1.00 20.00
MOTA	638	0	ASN	79	36.550	16.500	105.119	1.00 20.00
MOTA	639	N	LEU	80	37.681	14.769		1.00 20.00
ATOM	640	CA	LEU	80	37.952	15.381	102.896	1.00 20.00
ATOM	641	CB	LEU	80	38.244	14.333	101.805	1.00 20.00
ATOM	642	CG CD1	LEU	80 80	38.538 39.837		100.420	1.00 20.00
ATOM ATOM	643 644	CD2		80	38.542	13.762	99.330	1.00 20.00
MOTA	645	C	LEU	80	36.792	16.221	102.430	1.00 20.00
ATOM	646	o	LEU	80	35.806	15.703	101.910	1.00 20.00
ATOM	647	N	GLN	81	36.880	17.544	102.714	1.00 20.00
MOTA	648	CA	GLN	81	35.908	18.567	102.408	1.00 20.00
MOTA	649	CB	GLN	81	36.105	19.797	103.309	1.00 20.00
MOTA	650	CG	GLN	81	36.195	19.478	104.804	1.00 20.00
ATOM	651	CD	GLN	81	34.852	18.957	105.288	1.00 20.00
ATOM	652	OE1		81	34.703	18.599	106.455	1.00 20.00
MOTA	653	NE2		81	33.847	18.914	104.373	1.00 20.00
MOTA	654 655	C	GLN GLN	81 81	35.951 34.917	19.113 19.216	101.000	1.00 20.00
ATOM ATOM	656	O N	ILE	82	37.144	19.517	100.542	1.00 20.00
MOTA	657	CA	ILE	82	37.179	20.183	99.221	1.00 20.00
ATOM	658	CB	ILE	82	37.036	21.674	99.331	1.00 20.00
ATOM	659	CG2	ILE	82	38.255		100.098	1.00 20.00
ATOM	660	CG1	ILE	82	36.846	22.303	97.941	1.00 20.00
MOTA	661	CD1	ILE	82	36.418	23.770	97.983	1.00 20.00
ATOM	662	С	ILE	82	38.488	19.931	98.535	1.00 20.00
ATOM	663	0	ILE	82	39.512	19.721	99.182	1.00 20.00
ATOM	664	N	ILE	83	38.463	19.933	97.183	1.00 20.00
ATOM	400	. CA	ILE	83	39.639	19.776	96.369	1.00 20.00
ATOM	666	CB	ILE	83	39.580	18.550	95.503	1.00 20.00
ATOM	667	CG2	ILE ILE	83	40.815	18.541	94.587 96.373	1.00 20.00
ATOM ATOM	668 669	CG1 CD1	ILE	83 83	39.446 39.047	17.289 16.047	95.580	1.00 20.00
ATOM	670	C	ILE	83	39,638	20.964	95.451	1.00 20.00
ATOM	671	Ö	ILE	83	38.949	20.969	94.436	
ATOM	672	N	ARG	84	40.475	21.974	95.739	1.00 20.00
ATOM	673	CA	ARG	84	40.438	23.237	95.051	1.00 20.00
ATOM	674	CB	ARG	84	41.379	24.292	95.663	1.00 20.00
ATOM	675	CG	ARG	84	41.056	24.532	97.144	1.00 20.00
ATOM	676	CD	ARG	84	41.813	25.688	97.804	1.00 20.00
MOTA	677	NE	ARG	84	41.337	26.957	97.179	1.00 20.00
ATOM	678	CZ	ARG	84	40.267	27.637	97.693	1.00 20.00
ATOM	679	NH1 NH2	ARG ARG	84 84	39.610	27.185	98.804	1.00 20.00
ATOM ATOM	680 681	C	ARG	84	39.851 40.670	28.788 23.120	97.090 93.575	1.00 20.00
ATOM	682	0	ARG	84	40.120	23.120	92.809	1.00 20.00
ATOM	683	N	GLY	85	41.524	22.192	93.117	1.00 20.00
ATOM	684	CA	GLY	85	41.729	22.083	91.698	1.00 20.00
ATOM	685	С	GLY	85	42.603	23.201	91.212	1.00 20.00
ATOM	686	0	GLY	85	42.529	23.592	90.048	1.00 20.00
ATOM	687	N	ASN	86	43.476	23.734	92.087	1.00 20.00
ATOM	688	CA	ASN	86	44.351	24.804	91.696	1.00 20.00
MOTA	689	CB	ASN	86	45.378	25.141	92.790	1.00 20.00
ATOM	690	CG	ASN	86 86	46.262	26.275	92.294	1.00 20.00
MOTA MOTA	691 692	OD1 ND2	ASN ASN	86 86	45.903	26.998 26.429	91.366 92.924	1.00 20.00
ATOM	693	C	ASN	86	47.457 45.130	24.312	90.520	1.00 20.00

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7.mov4	694	0	ASI:	86	45.319	25.026	89.536	1.00 20.00
ATOM	695		MET	87	45.617	23.064	90.609	1.00 20.00
ATOM	696		MET	87	46.314	22.475	89.508	1.00 20.00
MOTA	697		MET	87	47.798	22.195	89.796	1.00 20.00
ATOM	698		MET	87	48.622	23.467	89.999	1.00 20.00
ATOM	699		MET	87	50.375	23.191	90.389	1.00 20.00
ATOM	700		MET	87	50.052	22.614	92.084	1.00 20.00
MOTA	701		MET	87	45.644	21.165	89.286	1.00 20.00
ATOM	702	0	MET	87	45.346	20.450	90.240	1.00 20.00
ATOM		N	TYR	88	45.386	20.807	88.016	1.00 20.00
ATOM	703 704	CA	TYR	88	44.662	19.593	87.805	1.00 20.00
ATOM	705	CB	TYR	88	43.276	19.806	87.169	1.00 20.00
MOTA	706	CG	TYR	88	43.437	20.643	85.946	1.00 20.00
MOTA	707	CD1	TYR	88	43.781	20.077	84.742	1.00 20.00
MOTA	708	CD2	TYR	88	43.258	22.005	86.011	1.00 20.00
MOTA	709	CE1	TYR	88	43.928	20.850	83.615	1.00 20.00
ATOM ATOM	710	CE2	TYR	88	43.403	22.787	84.888	1.00 20.00
ATOM	711	CZ	TYR	88	43.737	22.207	83.687	1.00 20.00
ATOM	712	ОН	TYR	88	43.885	23.004	82.532	1.00 20.00
MOTA	713	C	TYR	88	45.425	18.639	86.952	1.00 20.00
ATOM	714	Ö	TYR	88	46.402	18.994	86.293	1.00 20.00
ATOM	715	N	TYR	89	44.984	17.364	86.998	1.00 20.00
ATOM	716	CA	TYR	89	45.547	16.309	86.214	1.00 20.00
ATOM	717	CB	TYR	89	44.896	14.946	86.509	1.00 20.00
ATOM	718	CG	TYR	89	45.687	13.873	85.844	1.00 20.00
ATOM	719	CDI	TYR	89	46.827	13.387	86.441	1.00 20.00
ATOM	720	CD2	TYR	89	45.290	13.343	84.639	1.00 20.00
ATOM	721	CE1	TYR	89	47.566	12.394	85.844	1.00 20.00
ATOM	722	CE2	TYR	89	46.025	12.348	84.036	1.00 20.00
ATOM	723	C2	TYR	89	47.165	11.873	84.639	1.00 20.00
MOTA	724	ОН	TYR	89	47.920	10.853	84.022	1.00 20.00
ATOM	725	C	TYR	89	45.244	16.696	84.806	1.00 20.00
ATOM	726	Ö	TYR	89	44.261	17.387	84.555	1.00 20.00
ATOM	727	N	GLU	90	46.051	16.198	83.856	1.00 20.00
ATOM	728	CA	GLU	90	46.054	16.661	82.499	1.00 20.00
ATOM	729	СВ	GLU	90	46.848	15.747	81.554	1.00 20.00
ATOM	730	CG	GLU	90	47.131	16.399	80.202	1.00 20.00
ATOM	731	CD	GLU	90	48.086	17.557	80.456	1.00 20.00
ATOM	732	OE1		90	48.382	17.828	81.651	1.00 20.00
ATOM	733	OE2	GLU	90	48.535	18.189	79.462	1.00 20.00
ATOM	734	С	GLU	90	44.696	16.847	81.911	1.00 20.00
ATOM	735	0	GLU	90	44.369	17.952	81.480	1.00 20.00
ATOM	736	N	ASN	91	43.842	15.807	81.891	1.00 20.00
ATOM	737	CA	ASN	91	42.583	15.998	81.226	1.00 20.00
ATOM	738	CB	ASN	91	41.895	14.683	80.822	1.00 20.00
MOTA	739	CG	ASN	91	40.821	15.007	79.790	1.00 20.00
MOTA	740	OD1	ASN	91	40.502	16.168	79.540	1.00 20.00
ATOM	741	ND2	ASN	91	40.244	13.944	79.168	1.00 20.00
MOTA	742	С	ASN	91	41.654	16.782	82.103	1.00 20.00
ATOM	743	0	ASN	91	40.436	16.618	82.040	1.00 20.00
ATOM	744	Ν	SER	92	42.217	17.685	82.928	1.00 20.00
MOTA	745	CA	SER	92	41.458	18.550	83.771	1.00 20.00
MOTA	746	CB	SER	92	40.411	19.377	83.005	1.00 20.00
ATOM	747	OG	SER	92	41.053	20.266	82,105	1.00 20.00
ATOM	748	С	SER	92	40.740	17.743	84.795	1.00 20.00
ATOM	749	0	SER	92	39.548	17.946	85.011	1.00 20.00
ATOM	750	N	TYR	93	41.445	16.816	85.473	1.00 20.00
MOTA	751	CA	TYR	93	40.754	16.048	86.465	1.00 20.00
MOTA	752	CB	TYR	93	40.931	14.526	86.323	1.00 20.00
MOTA	753	CG	TYR	93	40.207	14.111	85.087	1.00 20.00
MOTA	754	CDI		93	38.833	14.096	85.062	1.00 20.00
MOTA	755	CD2		93	40.892	13.724	83.959	1.00 20.00
MOTA	756	CE		93	38.150	13.713	83.933	1.00 20.00
ATOM	757	CE:		93	40.211	13.339	82.828	1.00 20.00
MOTA	758	C2	TYR	93	38.839	13.335	82.808	1.00 20.00
ATOM	759		TYR	93	38.146	12.941	81.645	1.00 20.00
MOTA	760		TYR	93	41.222	16.439	87.832	1.00 20.00
ATOM	761	0	TYR	93	42.414	16.457	88.129	1.00 20.00
ATOM	762		ALA	94	40.261	16.855	88.676	1.00 20.00
ATOM	763		ALA	94	40.483		90.055 90.662	1.00 20.00
ATOM	764		ALA	94	39.342		90.851	1.00 20.00
MOTA	765		ALA	94 94	40.581		91.824	1.00 20.00
ATOM	766		ALA	94 95	41.329			1.00 20.00
ATOM	767		LEU	95 95	39.774 39.719			1.00 20.00
ATOM	768			95 95	39.719			1.00 20.00
MOTA	769			95	38.094			1.00 20.00
MOTA	770	,	250	,,	20.074	12.070		1.00 20.00

*								
				0.5	30 050	11 743	93.609	1.00 20.00
ATC::	771		ΕU	95 95		11.743 11.933	92.905	1.00 20.00
ATC!!	772		EU	95	39.870	12.559	90.167	1.00 20.00
ATC!:	773		EU EU	95	38.961	12.291	89.383	1.00 20.00
ATOM	774		LA	96	41.031	11.882	90.164	1.00 20.00
ATOM.	775 776		LA	96	41.200	10.812	89.228	1.00 20.00
ATO::	777		LA	96	42.470	10.941	88.368	1.00 20.00
ATO:	778		LA	96	41.329	9.551	90.013	1.00 20.00
ATOM	779		LA	96	42.199	9.438	90.874	1.00 20.00
ATC!:	780		'AL	97	40.424	8.584	89.761	1.00 20.00
ATO::	781		'AL	97	40.531	7.299	90.381	1.00 20.00
ATOM	782		AL	97	39.363	6.955	91.271	1.00 20.00
ATO:	783	CG1 V		97	39.424	7.874	92.503	1.00 20.00
ATC:	784	CG2 V		97	38.046	7.115	90.490	1.00 20.00
ATOM	785		/AL	97	40.626	6.319	89.253	1.00 20.00
ATOM	786	0 V	/AL	97	39.652	6.044	88.555	1.00 20.00
ATOM	787	N I	ΈU	98	41.820	5.743	89.036	1.00 20.00
ATO!·	788	CA I	LEU	98	41.928	4.905	87.883	1.00 20.00
NOTA	789	CB I	LEU	98	42.951	5.434	86.864	1.00 20.00
ATO!-'	790	CG I	LEU	98	42.656	6.870	86.390	1.00 20.00
MOTA	791		LEU	98	43.675	7.332	85.335	1.00 20.00
::OTA	792		EU	98	41.199	7.031	85.934	1.00 20.00
ATOM:	793		LEU	98	42.392	3.552	88.296	1.00 20.00
ATC::	794		LEU	98	43.270	3.424	89.148	1.00 20.00
ATO!:	795		SER	99	41.794	2.516	87.669	1.00 20.00
ATO::	796		SER	99	42.134 43.417	1.136 0.713	87.873 87.138	1.00 20.00
ATO':	797		SER	99 99	43.417	0.839	85.735	1.00 20.00
ATO!!	798		SER	99	42.335	0.871	89.327	1.00 20.00
ATOM	799 800		SER SER	99	43.443	0.555	89.755	1.00 20.00
MOTA MOTA	801		ASN	100	41.270	1.019	90.134	1.00 40.00
ATOM	802		ASN	100	41.424	0.743	91.529	1.00 40.00
ATOM	803		ASN	100	40.691	1.735	92.448	1.00 40.00
ATOM	804		ASN	100	41.518	3.011	92.524	1.00 40.00
ATOM	805		ASN	100	41.325	3.950	91.753	1.00 40.00
ATOM	806	ND2	ASN	100	42.469	3.050	93.495	1.00 40.00
ATOM	807	c i	ASN	100	40.850	-0.608	91.768	1.00 40.00
ATOM	808	0 7	ASN	100	39.636	-0.793	91.798	1.00 40.00
ATOM:	809	Ν,	TYR	101	41.744	-1.602	91.912	1.00 40.00
MOTA	810		TYR	101	41.306	-2.957	92.024	1.00 40.00
MOTA	811		TYR	101	41.928	-3.882	90.963	1.00 40.00
MOTA	812		TYR	101	41.573	-3.386	89.604	1.00 40.00
MOTA	813		TYR	101 101	42.196 40.643	-2.271 -4.043	89.092 88.832	1.00 40.00
ATOM	814 815		TYR TYR	101	41.885	-1.805	87.837	1.00 40.00
ATOM ATOM	816		TYR	101	40.330	-3.583	B7.574	1.00 40.00
ATOM	817		TYR	101	40.949	-2.462	87.076	1.00 40.00
ATOM	818		TYR	101	40.628	-1.989	85.786	1.00 40.00
ATOM	819		TYR	101	41.795	-3.497	93.322	1.00 40.00
MOTA	820	0	TYR	101	42.252	-2.770	94.202	1.00 40.00
MOTA	821	N	ASP	102	41.681	-4.830	93.440	1.00 60.00
MOTA	822	CA	ASP	102	42.123	-5.594	94.562	1.00 60.00
ATOM	823		ASP	102	40.964	-6.200	95.376	1.00 60.00
ATOM	824		ASP	102	41.496	-6.734	96.697	1.00 60.00
MOTA	825	OD1		102	42.710	-6.541	96.970	1.00 60.00
ATOM	826	OD2		102	40.693	-7.345	97.452	1.00 60.00
ATOM	827		ASP	102 102	42.861 43.134	-6.724 -6.686	93.928 92.729	1.00 60.00
ATOM	828		ASP ALA	102	43.225	-7.756	94.709	1.00 60.00
MOTA	829 830	N CA	ALA	103	43.893	-8.865	94.104	1.00 60.00
ATOM ATOM	831	CB	ALA	103	44.202	-9.996	95.099	1.00 60.00
ATOM	832	c	ALA	103	42.923	-9.393	93.102	1.00 60.00
ATOM:	833		ALA	103	43.286	-9.729	91.976	1.00 60.00
MOM	834	N	ASN	104	41.641	-9.448	93.502	1.00 60.00
ATOM	835	CA	ASN	104	40.604	-9.896	92.625	1.00 60.00
ATO:	836		ASN	104		-10.537	93.359	1.00 60.00
ATOM	837		ASN	104		-11.855	93.949	1.00 60.00
MOTA	838			104		-12.429	93.485	1.00 60.00
ATOM	839			104		-12.352	94.997	1.00 60.00
ATOM:	840		ASN	104	40.102	-8.702 -7.610	91.880 91.981	1.00 60.00
ATOY.	841		ASN	104 105	40.658 39.031	-7.610 -8.901	91.090	
ATOM	842		LYS	105	38.458	-7.851	90.301	1.00 60.00
ATOM	843 844		LYS	105	37.253	-8.323	89.471	1.00 60.00
MOTA MOTA	845		LYS	105	37.606	-9.373	88.415	
ATOM	846		LYS	105		-10.717	89.010	
ATO::	847		LYS	105		-11.771	87.958	

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7 mov4	0.4.0		LYS	105	37 175	-12.149	87,195	1.00 60.00
MOTA	848 849		LYS	105	37.972	-6.794	91.237	1.00 60.00
ATOM ATOM	850		LYS	105	38.074	-5.601	90.953	1.00 60.00
ATOM	851	N	THR	106	37.438	-7.217	92.397	1.00 60.00
MOTA	852	CA	THR	106	36.902	-6.318	93.379	1.00 60.00
ATOM	853	CB	THR	106	36.226	-7.076	94.496	1.00 60.00
ATOM	854		THR	106	35.283	-7.980	93.939	1.00 60.00
ATOM	855		THR	106	35.461	-6.112	95.423	1.00 60.00
ATOM	856	C	THR	106	38.064	-5.520	93.910	1.00 60.00
ATOM	857	0	THR	106	39.174	-5.602	93.387	1.00 60.00
MOTA	858	N	GLY	107	37.841	-4.704	94.959	1.00 60.00
ATOM	859	CA	GLY	107	38.890	-3.902	95.515	1.00 60.00
ATOM	860	С	GLY	107	38.297	-2.600	95.946	1.00 60.00
ATOM	861	0	GLY	107	38.185	-2.344	97.144	1.00 60.00
ATOM	862	N	LEU	108	37.892	-1.730	95.002	1.00 20.00
MOTA	863	CA	LEU	108	37.286	-0.514	95.481	1.00 20.00
MOTA	864	CB	LEU	108	37.761	0.736	94.725	1.00 20.00
ATOM	865	CG	LEU	108	37.132	2.051	95.221	1.00 20.00
ATOM	866	CD1	LEU	108	37.587	2.382	96.651	1.00 20.00
MOTA	867	CD2	LEU	108	37.392	3.199	94.236	1.00 20.00
ATOM	868	С	LEU	108	35.808	-0.622	95.296	1.00 20.00
ATOM	869	0	LEU	108	35.310	-0.562	94.175	1.00 20.00
MOTA	870	N	LYS	109	35.080	-0.834	96.407	1.00 20.00
ATOM	871	CA	LYS	109	33.652	-0.972	96.420	1.00 20.00
MOTA	872	CB	LYS	109	33.177	-1.588	97.746 97.942	1.00 20.00
MOTA	873	CG	LYS	109	33.781	-2.980 -3.514	97.942	1.00 20.00
ATOM	874	CD	LYS	109	33.705	-4.847	99.554	1.00 20.00
ATOM	875	CE	LYS	109	34.435 35.900	-4.636	99.510	1.00 20.00
ATOM	876	NZ	LYS	109 109	32.969		96.216	1.00 20.00
MOTA	877	С	LYS	109	31.967	0.426	95.508	1.00 20.00
ATOM ATOM	878 879	0 N	LYS GLU	110	33.479		96.838	1.00 20.00
MOTA	880	CA	GLU	110	32.817		96.712	1.00 20.00
ATOM	881	CB	GLU	110	31.570		97.609	1.00 20.00
ATOM	882	CG	GLU	110	31.790		99.006	1.00 20.00
ATOM	883	CD	GLU	110	30.514		99.813	1.00 20.00
ATOM	884	OE1		110	29.628		99.342	1.00 20.00
ATOM	885	OE2		110	30.409		100.912	1.00 20.00
ATOM	886	C	GLU	110	33.783		97.071	1.00 20.00
ATOM	887	0	GLU	110	34.925	3.502	97.431	1.00 20.00
MOTA	888	N	LEU	111	33.352	5.041	96.877	1.00 20.00
MOTA	889	CA	LEU	111	34.081		97.206	1.00 20.00
ATOM	890	CB	LEU	111	33.635		96.373	1.00 20.00
ATOM	891	CG	LEU	111	33.957		94.874	1.00 20.00
MOTA	892	CD1		111	33.534		94.088	1.00 20.00
ATOM	893	CD2		111	35.433		94.658	1.00 20.00
MOTA	894	С	LEU	111	34.016		98.671	1.00 20.00
MOTA	895	0	LEU	111	35.004		99.134	1.00 20.00
ATOM	896	N	PRO	112	32.985 32.65		99.441	1.00 20.00
ATOM	897	CA	PRO	112	32.920		99.729	1.00 20.00
ATOM	898	CD	PRO	112 112	32.50		101.799	1.00 20.00
MOTA MOTA	899 900	CB CG	PRO PRO	112	33.11		101.239	1.00 20.00
ATOM	901	C	PRO	112	33.42		101.103	1.00 20.00
ATOM	902	0	PRO	112	33.88		102.236	1.00 20.00
ATOM	903	N	MET	113	33.44			1.00 20.00
ATOM	904	CA	MET	113	33.99		100.278	1.00 20.00
MOTA	905	СВ	MET	113	34.37		98.914	1.00 20.00
ATOM	906	CG	MET	113	35.59		98.271	1.00 20.00
ATOM	907	SD	MET	113	36.06	0 11.195	96.659	1.00 20.00
ATOM	908	CE	MET	113	37.57		96.488	1.00 20.00
ATOM	909	С	MET	113	32.96		100.897	1.00 20.00
MOTA	910	0	MET	113	32.98		100.634	1.00 20.00
MOTA	911	N	ARG	114	32.00		101.670	1.00 20.00
MOTA	912	CA	ARG	114	30.79		102.067	1.00 20.00
ATOM	913	CB	ARG	114	30.08			1.00 20.00
ATOM	914	CG	ARG	114	30.87			1.00 20.00
MOTA	915	CD	ARG	114	30.11		105.744	1.00 20.00
ATOM	916	NE	ARG	114 114	28.88 28.89		105.958	1.00 20.00
MOTA	917	CZ NH:	ARG L ARG	114	30.02			1.00 20.00
MOTA	918 919		2 ARG	114	27.77		107.000	
ATOM ATOM	920		ARG	114	30.94		102.415	
ATOM	921	0	ARG	114	30.01		102.177	1.00 20.00
ATOM	922		ASN	115	32.05			1.00 20.00
ATOM	923		ASN	115	32.20		103.374	1.00 20.00
ATOM	924		ASN	115	33.26		104.462	1.00 20.00

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ATOI:	925	CG ASN	115	32.622	14.667	105.771	1.00 20.00
ATON:	926	OD1 ASN	115	31.474		105.797	1.00 20.00
ATOM	927	ND2 ASN	115	33.369	14.812	106.896	1.00 20.00
ATOM	928	C ASN	115	32.512	15.762	102.193	1.00 20.00
ATOM	929	O ASN	115	32.475	16.985	102.326	1.00 20.00
ATOM	930	N LEU	116	32.874	15.197	101.027	1.00 20.00
ATON:	931	CA LEU	116	33.324	15.949	99.887	1.00 20.00
ATOM	932	CB LEU	116	33.891	15.048	98.774	1.00 20.00
ATOM	933	CG LEU	116	34.406	15.807	97.541	1.00 20.00
MOTA	934	CD1 LEU	116	35.587	16.720	97.907	1.00 20.00
ATOM	935	CD2 LEU	116	34.751	14.836	96.401	1.00 20.00
ATOM	936	C LEU	116	32.208	16.778	99.318	1.00 20.00
ATOM	937	O LEU	116	31.331	16.276	98.617	1.00 20.00
ATOM:	938	N GLN	117	32.201	18.074	99.699	1.00 20.00
MOTA	939	CA GLN	117	31.258	19.080	99.298	1.00 20.00
MOTA	940	CB GLN	117	31.161	20.221	100.327	1.00 20.00
ATOM	941	CG GLN	117	30.430	19.854	101.620	1.00 20.00
ATOM	942	CD GLN	117	28.941	20.045	101.368	1.00 20.00
ATOM	943	OE1 GLN	117	28.107	19.776	102.231	1.00 20.00
MOTA	944	NE2 GLN	117	28.594	20.532	100.146	1.00 20.00
ATOM	945	C GLN		31.549	19.738	97.980	1.00 20.00
ATOM	946	O GLN		30.616	20.069	97.255	1.00 20.00
ATOM	947	N GLU		32.825	20.024	97.640	1.00 20.00
ATOM	948	CA GLU		32.991	20.755	96.414	1.00 20.00
MOTA	949	CB GLU		32.814	22.274	96.583 96.912	1.00 20.00
ATOM	950	CG GLU		31.386	24.228	97.045	1.00 20.00
ATOM	951	CD GLU		31.397 32.502	24.820	96.919	1.00 20.00
MOTA	952	OE1 GLU		30.306	24.815	97.280	1.00 20.00
MOTA	953 954	OE2 GLU		34.359	20.564	95.847	1.00 20.00
MOTA MOTA	955	O GLU		35.346	20.459	96.573	1.00 20.00
MOTA	956	N ILE	_	34.430	20.506	94.501	1.00 20.00
ATOM	957	CA ILE		35.680	20.480	93.804	1.00 20.00
ATOM	958	CB ILE		35.809	19.351	92.818	1.00 20.00
MOTA	959	CG2 ILE		37.074	19.581	91.976	1.00 20.00
ATOM	960	CG1 ILE		35.802	18.001	93.555	1.00 20.00
ATOM	961	CD1 ILE	119	35.706	16.791	92.626	1.00 20.00
ATOM	962	C ILE	: 119	35.709	21.770	93.052	1.00 20.00
ATOM	963	O ILE	119	35.224	21.861	91.926	1.00 20.00
ATOM	964	N LEU	120	36.396	22.773	93.625	1.00 20.00
MOTA	965	CA LE		36.373	24.132	93.162	1.00 20.00
MOTA	966	CB LE		37.433	25.005	93.855	1.00 20.00
MOTA	967	CG LE		37.439	26.469	93.379	1.00 20.00
ATOM	968	CD1 LE		36.125	27.179	93.746	1.00 20.00
ATOM	969	CD2 LEV		38.685 36.652	27.215 24.185	93.877 91.695	1.00 20.00
ATOM	970	C LE		36.032	25.024	90.999	1.00 20.00
MOTA	971 972	O LE		37.550	23.334	91.164	1.00 20.00
MOTA MOTA	973	CA HI		37.743	23.442		1.00 20.00
ATOM	974	ND1 HI		37.979	25.853		1.00 20.00
ATOM	975	NE2 HI		39.013	24.938		1.00 20.00
ATOM	976	CE1 HI		38.173	25.875		1.00 20.00
ATOM	977	CD2 HI		39.379	24.279		1.00 20.00
ATOM	978	CG HI		38.754	24.827	87.891	1.00 20.00
ATOM	979	CB HI	5 121	38.820	24.461	89.344	1.00 20.00
MOTA	980	C HI		38.157	22.111		1.00 20.00
MOTA	981	O HI		38.717	21.281		1.00 20.00
ATOM	982	N GL		37.876	21.878		1.00 20.00
ATOM	983	CA GL		38.266	20.659		1.00 20.00
ATOM	984	C GL		37.146	19.672		1.00 20.00
ATOM	985	O GL		36.209	19.872		1.00 20.00
MOTA	986	N AL		37.239	18.576		1.00 20.00
MOTA	987	CA AL		36.262	17.523		1.00 20.00
ATOM	988	CB AL		35.947 36.781	17.049		1.00 20.00
ATOM	989	C AL		37.767	16.415		1.00 20.00
ATOM	990 991	O AL N VA		36.091	15.174		1.00 20.00
ATOM ATOM	992	CA VA		36.495	13.953		1.00 20.00
ATOM ATOM	993			35.513	13.479		1.00 20.00
ATOM	994	CG1 VA		36.036	12.172		1.00 20.00
ATOM	995			35.297	14.606		1.00 20.00
ATOM	996			36.598	12.87		1.00 20.00
ATOM	997			35.978	12.95		1.00 20.00
ATOM	998	n Ar		37.431	11.83		1.00 20.00
ATOM	999			37.499	10.73		1.00 20.00
MOTA	1000			38.785	10.70		1.00 20.00
MOTA	1001	CG AR	G 125	38.867	9.47	9 84.329	1.00 20.00

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P	1000	CD 700	125	39,979	9.589	83.289	1.00 20.00
ATOM	1002	CD ARG	125			83.961	1.00 20.00
MOTA	1003	NE ARG	125	41.137	10.238		1.00 20.00
ATOM	1004	CZ ARG	125	42.061	10.906	83.213	
ATOM	1005	NH1 ARG	125	41.961	10.909	81.852	1.00 20.00
ATOM	1006	NH2 ARG	125	43.075	11.584	83.824	1.00 20.00
ATOM	1007	C ARG	125	37.433	9.452	86.847	1.00 20.00
ATOM	1008	O ARG	125	38.360	9.097	87.572	1.00 20.00
ATOM	1009	N PHE	126	36.329	8.698	86.690	1.00 20.00
ATOM	1010	CA PHE	126	36.228	7.446	87.385	1.00 20.00
ATOM	1011	CB PHE	126	34.851	7.195	88.031	1.00 20.00
ATOM	1012	CG PHE	126	34.507	8.261	89.012	1.00 20.00
		CD1 PHE	126	34.990	8.228	90.299	1.00 20.00
MOTA	1013		126	33.671	9.287	88.639	1.00 20.00
ATOM	1014			34.653	9.216	91.194	1.00 20.00
MOTA	1015	CE1 PHE	126		10.277	89.530	1.00 20.00
MOTA	1016	CE2 PHE	126	33.330			1.00 20.00
MOTA	1017	CZ PHE	126	33.824	10.243	90.811	
MOTA	1018	C PHE	126	36.313	6.375	86.337	1.00 20.00
MOTA	1019	O PHE	126	35.314	6.051	85.695	1.00 20.00
ATOM	1020	n sek	127	37.491	5.752	86.157	1.00 20.00
MOTA	1021	CA SER	127	37.559	4.790	85.099	1.00 20.00
ATOM	1022	CB SER	127	38.463	5.222	83.931	1.00 20.00
MOTA	1023	OG SER	127	39.823	5.213	84.338	1.00 20.00
ATOM	1024	C SER	127	38.093	3.484	85.593	1.00 20.00
ATOM	1025	O SER	127	38.762	3.399	86.622	1.00 20.00
ATOM	1026	N ASN	128	37.773	2.419	84.830	1.00 20.00
ATOM	1027	CA ASN	128	38.272	1.090	85.056	1.00 20.00
	1028	CB ASN	128	39.735	0.895	84.611	1.00 20.00
ATOM			128	39.832	1.046	83.097	1.00 20.00
ATOM	1029				1.995	82.604	1.00 20.00
ATOM	1030	OD1 ASN	128	40.440			1.00 20.00
MOTA	1031	ND2 ASN	128	39.233	0.089	82.337	
ATOM	1032	C ASN	128	38.197	0.700	86.497	1.00 20.00
MOTA	1033	o Asn	128	39.228	0.550	87.153	1.00 20.00
ATOM	1034	n asn	129	36.977	0.539	87.046	1.00 20.00
MOTA	1035	CA ASN	129	36.919	0.066	88.402	1.00 20.00
MOTA	1036	CB ASN	129	36.561	1.183	89.392	1.00 20.00
ATOM	1037	CG ASN	129	37.695	2.197	89.370	1.00 20.00
MOTA	1038	OD1 ASN	129	38.830	1.889	89.731	1.00 20.00
ATOM	1039	ND2 ASN	129	37.381	3.442	88.922	1.00 20.00
ATOM	1040	C ASN	129	35.824	-0.953	88.478	1.00 20.00
ATOM	1041	O ASN	129	34.736	-0.657	88.969	1.00 20.00
ATOM	1042	N PRO	130	36.113	-2.167	88.094	1.00 20.00
ATOM	1043	CA PRO	130	35.133	-3.218	87.967	1.00 20.00
		CD PRO	130	37.477	-2.650	87.977	1.00 20.00
MOTA	1044		130	35.928	-4.509	87.765	1.00 20.00
ATOM	1045			37.329	-4.036	87.327	1.00 20.00
ATOM	1046	CG PRO	130		-3.318	89.118	1.00 20.00
MOTA	1047	C PRO	130	34.166			1.00 20.00
ATOM	1048	O PRO	130	32.965	-3.409	88.870	
ATOM	1049	N ALA	131	34.670	-3.327	90.365	1.00 20.00
ATOM	1050	CA ALA	131	33.926	-3.463	91.592	1.00 20.00
ATOM	1051	CB ALA	131	34.809	-3.930	92.762	1.00 20.00
MOTA	1052	C ALA	131	33.247	-2.196	92.045	1.00 20.00
MOTA	1053	o ala	131	32.352	-2.253	92.884	1.00 20.00
ATOM	1054	N LEU	132	33.686	-1.015	91.574	1.00 20.00
ATOM	1055	CA LEU	132	33.213	0.222	92.140	1.00 20.00
ATOM	1056	CB LEU	132	33.939	1.453	91.558	1.00 20.00
MOTA	1057	CG LEU	132	33.469	2.799	92.139	1.00 20.00
ATOM	1058	CD1 LEU	132	33.739	2.881	93.647	1.00 20.00
ATOM	1059	CD2 LEU	132	34.091	3.978	91.369	1.00 20.00
ATOM	1060		132	31.745	0.413	91.960	1.00 20.00
ATOM	1061	O LEU	132	31.198	0.282	90.868	1.00 20.00
ATOM	1062		133	31.068	0.757	93.071	1.00 20.00
ATOM	1063		133	29.663	0.994	93.024	1.00 20.00
						93.563	1.00 20.00
ATOM	1064	CB CYS	133	28.845	-0.167 -1.500	92.338	1.00 20.00
ATOM	1065	_	133	28.793			
MOTA	1066		133	29.389	2.230	93.814	1.00 20.00
MOTA	1067		133	30.309	2.967	94.165	1.00 20.00
MOTA	1068		134	28.102	2.508	94.085	1.00 20.00
MOTA	1069		134	27.765	3.698	94.803	1.00 20.00
MOTA	1070		134	28.367	3.735	96.219	1.00 20.00
ATOM	1071		134	27.653	2.690	97.066	1.00 20.00
ATOM	1072		134	26.570	2.936	97.593	1.00 20.00
ATOM	1073		134	28.273	1.486	97.198	1.00 20.00
ATOM	1074		134	28.325	4.848	94.026	1.00 20.00
ATOM	1075		134	28.806	5.818	94.610	1.00 20.00
ATOM	1076		135	28.441	4.664	92.693	
ATOM	1077		135	28.828		91.749	
ATOM	1078		135	29.541	5.104	90.561	1.00 20.00
1,1011	10.0						-

T MOV	1079	CG1 VAL	135	29.869	6.247	89.585	1.00 20.00
ATOM		CG2 VAL	135	30.775	4.333	91.059	1.00 20.00
ATOM	1080			27.661	6.465	91.212	1.00 20.00
ATOM:	1081	C VAL	135		7.687	91.089	1.00 20.00
MOTA	1082	O VAL	135	27.725		90.849	1.00 20.00
MOTA	1083	N GLU	136	26.569	5.752	90.197	1.00 20.00
MOTA	1084	CA GLU	136	25.403	6.303		
MOTA	1095	CB GLU	136	24.397	5.239	89.724	1.00 20.00
ATOM	1086	CG GLU	136	24.872	4.364	88.564	1.00 20.00
ATOM	1087	CD GLU	136	23.716	3.438	88.207	1.00 20.00
MOTA	1088	OE1 GLU	136	22.655	3.964	87.773	1.00 20.00
ATOM	1089	OE2 GLU	136	23.871	2.199	88.372	1.00 20.00
MOTA	1090	C GLU	136	24.646	7.159	91.148	1.00 20.00
MOTA	1091	O GLU	136	23.956	8.096	90.754	1.00 20.00
	1092	N SER	137	24.750	6.798	92.430	1.00 20.00
MOTA	1093	CA SER	137	24.071	7.350	93.560	1.00 20.00
ATOM	1093	CB SER	137	24.290	6.481	94.807	1.00 20.00
ATOM			137	25.680	6.249	94.980	1.00 20.00
MOTA	1095			24.503	8.753	93.871	1.00 20.00
MOTA	1096	C SER	137	23.834	9.423	94.654	1.00 20.00
ATOM	1097	O SER	137	25.647	9.232	93.345	1.00 20.00
MOTA	1098	N ILE	138		10.544	93.733	1.00 20.00
MOTA	1099	CA ILE	138	26.094		93.900	1.00 20.00
MOTA	1100	CB ILE	138	27.582	10.629		1.00 20.00
MOTA	1101	CG2 ILE	138	27.945	12.095	94.188	1.00 20.00
ATOM	1102	CG1 ILE	138	28.055	9.647	94.982	
ATOM	1103	CD1 ILE	138	29.563	9.414	94.969	1.00 20.00
ATOM	1104	C ILE	138	25.724	11.578	92.710	1.00 20.00
MOTA	1105	C ILE	138	25.821	11.357	91.503	1.00 20.00
ATOM	1106	N GLN	139	25.288	12.764	93.192	1.00 20.00
MOTA	1107	CA GLN	139	24.929	13.831	92.306	1.00 20.00
MOTA	1108	CB GLN	139	23.652	14.566	92.754	1.00 20.00
ATOM	1109	CG GLN	139	23.092	15.539	91.716	1.00 20.00
ATOM	1110	CD GLN	139	21.688	15.926	92.161	1.00 20.00
ATOM	1111	OE1 GLN	139	21.024	16.749	91.532	1.00 20.00
ATOM	1112	NE2 GLN	139	21.216	15.308	93.277	1.00 20.00
	1113	C GLN	139	26.075	14.794	92.284	1.00 20.00
ATOM		O GLN	139	26.160	15.724	93.085	1.00 20.00
MOTA	1114		140	26.977	14.597	91.309	1.00 20.00
ATOM	1115		140	28.180	15.363	91.161	1.00 20.00
ATOM	1116		140	29.163	14.778	90.137	1.00 20.00
ATOM	1117		140	29.818	13.522	90.653	1.00 20.00
MOTA	1118	CG TRP	140	30.821	13.520	91.679	1.00 20.00
MOTA	1119	CD2 TRP	140	29.592	12.217	90.330	1.00 20.00
MOTA	1120	CD1 TRP		30.396	11.400	91.091	1.00 20.00
MOTA	1121	NE1 TRP	140	31.156	12.191	91.927	1.00 20.00
MOTA	1122	CE2 TRP	140		14.545	92.364	1.00 20.00
ATOM	1123	CE3 TRP	140	31.410		92.869	1.00 20.00
MOTA	1124	CZ2 TRP	140	32.090	11.863	93.308	1.00 20.00
ATOM	1125	CZ3 TRP	140	32.355	14.211		1.00 20.00
ATOM	1126	CH2 TRP	140	32.688	12.896	93.555	1.00 20.00
MOTA	1127	C TRP	140	27.853	16.764	90.784	
MOTA	1128	O TRP	140	28.699	17.646	90.889	1.00 20.00
MOTA	1129	11 ARG	141	26.637	17.008	90.276	1.00 20.00
ATOM	1130	CA ARG	141	26.301	18.348	89.897	1.00 20.00
ATOM	1131	CB ARG	141	24.877	18.477	89.325	1.00 20.00
ATOM	1132	CG ARG	141	24.516	19.908	88.917	1.00 20.00
MOTA	1133	CD ARG	141	23.284	20.001	88.011	1.00 20.00
MOTA	1134		141	22.103	19.536	88.789	1.00 20.00
ATOM	1135	CZ ARG	141	21.404	20.418	89.561	1.00 20.00
ATOM	1136	NH1 ARG	141	21.799	21.722	89.638	1.00 20.00
MOTA	1137	NH2 ARG	141	20.305	19.998	90.253	1.00 20.00
ATOM	1138	C ARG	141	26.410	19.219	91.109	
MOTA	1139	O ARG	141	26.800	20.381	91.011	1.00 20.00
ATOM	1140		142	26.040	18.695	92.292	1.00 20.00
ATOM	1141		142	26.142	19.491	93.480	
ATOM	1142		142	25.567	18.779	94.715	1.00 20.00
ATOM	1143		142	24.056	18.687	94.552	
MOTA	1144		142	23.505	19.441	93.706	1.00 20.00
MOTA	1145		142	23.432	17.860		
MOTA	1146		142	27.588	19.782		
ATOM	1147		142	27.964	20.923		
	1148		143	28.443	18.743		
ATOM	1149		143	29.832	18.901		
MOTA	1145		143	30.527	17.584		
ATOM			143	32.013	17.861		
ATOM	1151		143	29.841	16.766		
ATOM	1152		143	30.264	15.299		
ATOM	1153			30.583			
MOTA	1154			31.338			
MOTA	115	ستسدد ب ر	*	27.220			

MOTA	1156	N	VAL	144	30.393	19.425	91.746	1.00 20.00
ATOM	1157		VAL	144	31.124	20.114	90.716	1.00 20.00
ATOM	115B		VAL	144	31.795	19.194	89.741	1.00 20.00
MOTA	1159		VAL	144	32.848	18.362	90.491	1.00 20.00
ATOM	1160		VAL	144	30.714	18.350	89.046	1.00 20.00
ATOM	1161	С	VAL	144	30.141	20.931	89.943	1.00 20.00
ATOM	1162		VAL	144	28.999	20.521	89.760	1.00 20.00
MOTA	1163	N	SER	145	30.563	22.110	89.449	1.00 40.00
MOTA	1164	CA	SER	145	29.643	22.943	88.732	1.00 40.00
MOTA	1165	CB	SER	145	30.257	24.248	88.196	1.00 40.00
MOTA	1166	OG	SER	145	30.673	25.071	89.276	1.00 40.00
MOTA	1167	С	SER	145	29.123	22.163	87.570	1.00 40.00
MOTA	1168	0	SER	145	29.739	21.194	87.131	1.00 40.00
MOTA	1169	N	SER	146	27.951	22.580	87.055 85.989	1.00 40.00
ATOM	1170	CA	SER	146	27.292 26.000	22.586	85.532	1.00 40.00
MOTA	1171	CB	SER SER	146 146	26.304	23.856	84.973	1.00 40.00
MOTA	1172 1173	OG C	SER	146	28.217	21.846	84.824	1.00 40.00
MO'TA MO'TA	1174	o	SER	146	28.314	20.832	84.134	1.00 40.00
ATOM	1175	N	ASP	147	28.939	22.952	84.583	1.00 40.00
ATOM	1176	CA	ASP	147	29.847	22.975	83.480	1.00 40.00
ATOM	1177	СВ	ASP	147	30.636	24.292	83.385	1.00 40.00
MOTA	1178	CG	ASP	147	31.429	24.285	82.086	1.00 40.00
MOTA	1179	OD1	ASP	147	31.400	23.245	81.376	1.00 40.00
ATOM	1180	OD2	ASP	147	32.078	25.324	81.786	1.00 40.00
MOTA	1181	С	ASP	147	30.821	21.874	83.729	1.00 40.00
ATOM	1182	0	ASP	147	31.224	21.159	82.815	1.00 40.00
MOTA	1183	И	PHE	148	31.212	21.701	85.001	1.00 40.00
ATOM	1184	CA	PHE	148	32.146	20.677 20.717	85.353 86.831	1.00 40.00
MOTA	1185	CB	PHE	148	32.566 33.413	21.930	87.007	1.00 40.00
MOTA	1186	CG	PHE	148	34.745	21.906	86.662	1.00 40.00
MOTA	1187 1188	CD1 CD2		148 148	32.881	23.090	87.517	1.00 40.00
MOTA MOTA	1189	CE1	PHE	148	35.530	23.023	86.821	1.00 40.00
ATOM	1190	CE2		148	33.661	24.211	87.679	1.00 40.00
ATOM	1191	CZ	PHE	148	34.989	24.179	87.330	1.00 40.00
ATOM	1192	C	PHE	148	31.545	19.337	85.076	1.00 40.00
ATOM	1193	0	PHE	148	32.255	18.412	84.685	1.00 40.00
MOTA	1194	Ν	LEU	149	30.218	19.180	85.259	1.00 40.00
MOTA	1195	CA	LEU	149	29.675	17.858	85.078	1.00 40.00
MOTA	1196	CB	LEU	149	28.154	17.741	85.313	1.00 40.00
ATOM	1197	CG	LEU	149	27.699 27.904	17.793 19.177	86.785 87.411	1.00 40.00
MOTA	1198	CD1 CD2		149 149	26.256	17.287	86.934	1.00 40.00
MOTA MOTA	1199 1200	CD2	LEU	149	29.918	17.375	83.683	1.00 40.00
MOTA	1200	Ö	LEU	149	30.200	16.196	83.472	1.00 40.00
MOTA	1202	И	SER	150	29.837	18.269	82.687	1.00 40.00
MOTA	1203	CA	SER	150	29.984	17.843	81.326	1.00 40.00
ATOM	1204	CB	SER	150	29.921	19.017	80.335	1.00 40.00
MOTA	1205	OG	SER	150	30.998	19.911	80.574	1.00 40.00
MOTA	1206	С	SER	150	31.315	17.175	81.149	1.00 40.00
ATOM	1207	0	SER	150	31.425	16.176	80.440	1.00 40.00
MOTA	1208	N	ASN	151	32.360	17.717	81.799 81.665	1.00 40.00
MOTA	1209	CA	ASN	151	33.712 34.724	17.251 18.153	82.390	1.00 40.00
MOTA	1210		ASN	151 151	34.724	19.512	81.705	1.00 40.00
ATOM ATOM	1211 1212	CG	asn Lasn	151	34.014	19.746	80.739	
MOTA	1213		ASN	151	35.596	20.435	82.216	
MOTA	1214	c	ASN	151	33.889	15.871	82.230	
ATOM	1215		ASN	151	34.720	15.108	81.740	
ATOM	1216		MET	152	33.128	15.513	83.283	
MOTA	1217	CA	MET	152	33.330	14.269	83.982	
MOTA	1218		MET	152	32.253	14.010	85.050	
MOTA	1219		MET	152	32.593	12.883	86.026	
MOTA	1220		MET	152	31.367	12.649		
ATOM	1221		MET	152	31.655		83.026	
ATOM	1222		MET MET	152 152	33.343 32.474	12.997	82.165	
MOTA MOTA	1223 1224		SER	153	34.368			
ATOM	1225			153	34.471			
ATOM	1226		SER	153	35.786			
MOTA	1227			153	35.840		80.581	1.00 40.00
MOTA	1228		SER	153	34.405		83.094	
ATOM	1229		SER	153	35.285			
MOTA	1230		MET	154	33.333			
ATOM	1231			154	33.238			and the second s
MOTA	1232	2 CB	MET	154	31.968		. 57.902	. 1.50 40.00

ATOM	1233	os.	MET	154	31.991	8.700	85.660	1.00 40.00
MOTA	1234	CG SD	MET	154	30.442	8.788	86.607	1.00 40.00
MOTA	1235	CE	MET	154	29.667	10.012	85.513	1.00 40.00
MOTA	1236	C	MET	154	33.215	6.783	82.577	1.00 40.00
ATOM	1237	0	MET	154	32.267	6.665	81.802	1.00 40.00
MOTA	1238	13	ASP	155	34.283	5.969	82.540	1.00 40.00
ATOM	1239	CA	ASP	155	34.292	4.918	81.579	1.00 40.00
ATOM	1240	CB	ASE	155	35.691	4.375	81.243	1.00 40.00
MOTA MOTA	1241	CG OD1	IRA FEA	155 155	35.566 34.446	3.514 3.465	79.992 79.417	1.00 40.00
ATOM	1243		ASP	155	36.590	2.892	79.599	1.00 40.00
MOTA	1244	Ç	ASF	155	33.519	3.827	82.204	1.00 40.00
ATOM	1245	0	ASP	155	33.637	3,600	83.411	1.00 40.00
MOTA	1246	N	PHE	156	32.731	3.114	81.370	1.00 40.00
ATOM	1247	CA	PHE	156	31.853	2.051	81.774	1.00 40.00
MOTA	1248	CB	PHE	156 156	31.040 30.123	1.483 2.536	80.595	1.00 40.00
MOTA MOTA	1249 1250	CG CD1	PHE	156	30.600	3.548	80.071 79.269	1.00 40.00
ATOM	1251	CD2	PHE	156	28.779	2.498	80.364	1.00 40.00
MOTA	1252	CEl	PHE	156	29.753	4.516	78.780	1.00 40.00
MOTA	1253	CE2	PHE	156	27.928	3.462	79.878	1.00 40.00
MOTA	1254	CZ	PHE	156	28.414	4.474	79.086	1.00 40.00
ATOM	1255	C	PHE	156	32.652	0.896	82.298	1.00 40.00
ATOM	1256 1257	0	PHE	156	32.133	-0.214 1.112	82.406	1.00 40.00
ATOM ATOM	1258	N CA	GLN: GLN:	157 157	33.928 34.682	0.035	82.654 83.193	1.00 40.00
ATOM	1259	СВ	GLI.	157	36.201	0.220	83.147	1.00 40.00
MOTA	1260	CG	GLN	157	36.920	-1.060	83.577	1.00 40.00
ATOM	1261	CD	GLN	157	36.539	-2.155	82.595	1.00 40.00
ATOM	1262	OE1	GL1:	157	35.829	-1.905	81.621	1.00 40.00
ATOM	1263	NE2	GLN	157	37.018	-3.400	82.859	1.00 40.00
ATOM ATOM	1264 1265	С 0	GLN GLN	157 157	34.259 34.691	-0.117 -1.040	84.613 85.298	1.00 40.00
ATOM	1266	N	ASN	158	33.416	0.812	85.106	1.00 40.00
ATOM	1267	CA	ASN	158	32.945	0.694	86.456	1.00 40.00
MOTA	1268	CB	ASI:	158	32.249	1.957	86.991	1.00 40.00
ATOM ATOM	1269 1270	CG OD1	ASN ASN	158 158	33.321 34.482	3.010 2.688	87.232 87.478	1.00 40.00
ATOM	1271	ND2	ASN	158	32.918	4.307	87.169	1.00 40.00
MOTA	1272	С	ASN	158	31.962	-0.434	86.502	1.00 40.00
MOTA	1273	0	ASN	158	31.713	-1.097	85.497	1.00 40.00
ATOM	1274	N	HIS	159 159	31.388	-0.692	87.695	1.00 40.00
ATOM ATOM	1275 1276	CA ND1	HIS HIS	159	30.496 28.560	-1.805 -3.969	87.868 89.655	1.00 40.00
ATOM	1277		HIS	159	29.574	-5.943	89.508	1.00 40.00
MOTA	1278	CE1	HIS	159	28.425	-5.319	89.694	1.00 40.00
ATOM	1279	CD2	HIS	159	30.498	-4.927	89.342	1.00 40.00
MOTA MOTA	1280 1281	CG CB	HIS HIS	159 159	29.893 30.482	-3.710 -2.337	89.428 89.311	1.00 40.00
ATOM	1282	C	HIS	159	29.099	-1.389	87.517	1.00 40.00
ATOM	1283	ō	HIS	159	28.816	-0.203	87.352	1.00 40.00
ATOM	1284	N	LEU	160	28.187	-2.379	87.382	1.00 40.00
ATOM	1285	CA	LEU	160	26.814	-2.106	87.060	1.00 40.00
ATOM ATOM	1286 1287	CB CG	LEU	160 160	26.107 26.696	-3.247 -3.508	86.307 84.908	1.00 40.00
ATOM	1288		LEU	160	28.149	-4.000	84.998	1.00 40.00
ATOM	1289		LEU	160	25.794	-4.442	84.086	1.00 40.00
ATOM	1290	C	LEU	160	26.070	-1.873	88.341	1.00 40.00
MOTA	1291	0	LEU	160	26.472	-2.342	89.403	1.00 40.00
ATOM ATOM	1292	N CA	GLY GLY	161 161	24.928 24.107	-1.164	88.240	1.00 40.00
ATOM	1293 1294	C	GLY	161	23.611	-0.713 -1.851	89.334 90.176	1.00 40.00
ATOM	1295	ō	GLY	161	22.862	-1.641	91.128	1.00 40.00
ATOM	1296	N	SER	162	24.007	-3.088	89.846	1.00 40.00
MOTA	1297	CA	SER	162	23.573	-4.255	90.554	1.00 40.00
ATOM ATOM	1298 1299	CB OG	SER SER	162 162	24.217 25.617	-5.543 -5.519	90.018	1.00 40.00
ATOM	1300	C	SER	162	23.947	-4.144	90.253 92.006	1.00 40.00
ATOM	1301	Ö	SEK	162	23.297	-4.749	92.855	1.00 40.00
ATOM	1302	N	CYS	163	24.998	-3.377	92.347	1.00 20.00
ATOM	1303	CA	CYS	163	25.471	-3.385	93.708	1.00 20.00
ATOM ATOM	1304 1305	CB SG	CYS	163 163	26.601 28.216	-2.412 -3.031	94.018 93.499	1.00 20.00
ATOM	1306	c	CYS	163	24.431	-3.146	94.769	1.00 20.00
ATOM	1307	0	CYS	163	24.256	-4.027	95.603	1.00 20.00
ATOM	1308	N	GL!!	164	23.706	-2.003	94.826	1.00 40.00
MOTA	1309	CA	GL:	164	22.859	-1.898	95.996	1.00 40.00

ATOM	1310	CB	GLN	164	23.611	-1.447	97.263	1.00 40.00
ATON:	1311	CG	GLN	164	24.612	-2.460	97.823	1.00 40.00
ATOM	1312	CD	GLN	164	25.256	-1.849	99.059	1.00 40.00
ATOM:	1313	OE1	GLN	164	25.834	-0.765	98.997	1.00 40.00
ATOM	1314	NE2	GLN	164	25.155		100.216	1.00 40.00
ATOM:	1315	С	GLN	164	21.763	-0.888	95.825	1.00 40.00
MOTA	1316	0	GLN	164	21.240	-0.679	94.732	1.00 40.00
ATON:	1317	N	LYS	165	21.374	-0.272	96.971	1.00 40.00
ATOI:	1318	CA	LYS	165	20.320	0.702	97.072	1.00 40.00
ATOM	1319	CB	LYS	165	18.957	0.054	97.384	1.00 40.00
ATOM	1320	CG	LYS	165	17.794	1.038 0.361	97.503 97.435	1.00 40.00
MOTA	1321	CD	LYS	165	16.420 16.216	-0.741	98.479	1.00 40.00
ATOM	1322	CE	LYS	165 165	15.818	-0.147	99.775	1.00 40.00
ATOM	1323	NZ	LYS	165	20.660	1.625	98.213	1.00 40.00
MOTA	1324	C	LYS	165	21.489	1.293	99.058	1.00 40.00
ATOM	1325 1326	N O	CYS	166	20.032	2.823	98.262	1.00 20.00
MOTA	1327	CA	CYS	166	20.299	3.762	99.324	1.00 20.00
MOTA MOTA	1328	CB	CYS	166	20.295	5.252	98.901	1.00 20.00
ATOM	1329	SG	CYS	166	21.577	5.745	97.700	1.00 20.00
MOTA	1330	c	CYS	166	19.219		100.350	1.00 20.00
ATOM	1331	ō	CYS	166	18.356	2.750	100.247	1.00 20.00
ATOM	1332	N	ASP	167	19.264	4.480	101.391	1.00 20.00
ATOM	1333	CA	ASP	167	18.286	4.447	102.442	1.00 20.00
ATOM	1334	CB	ASP	167	18.787	5.021	103.777	1.00 20.00
ATOM	1335	CG	ASP	167	19.866	4.096	104.320	1.00 20.00
ATO!!	1336	OD1	ASP	167	20.212	3.110	103.616	1.00 20.00
MOTA:	1337	OD2	ASP	167	20.357	4.362	105.450	1.00 20.00
ATOM:	1338	С	ASP	167	17.120	5.283	102.017	1.00 20.00
MOTA	1339	O	ASP	167	17.221		101.119	1.00 20.00
MOTA	1340	N	PRO	168	15.994	5.035	102.630	1.00 20.00
ATOM	1341	CA	PRO	168	14.801	5.792	102.377	1.00 20.00
ATOM	1342	CD	PRO	168	15.722	3.769 5.005	103.285	1.00 20.00
MOTA	1343	CB	PRO	168	13.657 14.352	3.987	103.019	1.00 20.00
MOTA	1344	CG	PRO	168 168	14.980	7.169	102.929	1.00 20.00
ATOM	1345	C	PRO PRO	168	14.295	8.089	102.485	1.00 20.00
ATOM ATOM	1346 1347	O N	SER	169	15.883	7.319	103.915	1.00 20.00
ATOM	1348	CA	SER	169	16.143	8.581	104.541	1.00 20.00
MOTA	1349	CB	SER	169	17.090	8.455	105.749	1.00 20.00
ATOM	1350	OG	SER	169	17.314	9.731	106.332	1.00 20.00
ATOM	1351	C	SER	169	16.799	9.493	103.555	1.00 20.00
ATOM	1352	0	SER	169	16.481	10.679	103.488	1.00 20.00
ATOM	1353	N	CYS	170	17.724	8.950	102.741	1.00 20.00
ATOM	1354	CA	CYS	170	18.471	9.781	101.844	1.00 20.00
ATOM	1355	CB	CYS	170	19.480	9.021	100.964	1.00 20.00
MOTA	1356	SG	CYS	170	20.686	8.015	101.878	1.00 20.00
ATOM	1357	С	CYS	170	17.520	10.444	100.903	1.00 20.00
MOTA	1358	0	CYS	170	16.343 18.052	11.433	100.240	1.00 20.00
MOTA	1359	N	PRO	171 171	17.297	12.152	99.251	1.00 20.00
MOTA	1360 1361	CA CD	PRO PRO	171	19.025	12.292	100.897	1.00 20.00
MOTA MOTA	1362	CB	PRO	171	18.056	13.451	99.001	1.00 20.00
ATOM	1363	CG	PRO	171	18.791	13.702		1.00 20.00
ATOM	1364	c	PRO	171	17.159	11.294		1.00 20.00
ATOM	1365	0	PRO	171	17.841	10.274	97.962	1.00 20.00
ATOM	1366	N	ASN	172	16.288	11.695		1.00 20.00
ATOM	1367	CA	ASN	172	15.986	10.935		1.00 20.00
MOTA	1368	CB	ASN	172	15.258	11.749		1.00 20.00
MOTA	1369	CG	ASN	172	13.851	12.072	95.309	1.00 20.00
MOTA	1370		ASN	172	13.402	11.580		1.00 20.00
MOTA	1371		2 ASN	172	13.128	12.919		1.00 20.00
MOTA	1372	C	ASN	172	17.228	10.384	95.289	1.00 20.00
ATOM	1373	0	ASN	172	17.903	11.060		1.00 20.00
MOTA	1374	N	GLY	173	17.558 18.622	9.125 8.401		1.00 20.00
ATOM	1375	CA C	GLY GLY	173 173	19.947	9.070		1.00 20.00
MOTA MOTA	1376 1377	0	GLY	173	20.756	9.062		1.00 20.00
ATOM	1378	N	SER	174	20.232	9.681		1.00 20.00
ATOM	1379	CA	SER	174	21.547	10.255		1.00 20.00
ATOM	1380		SER	174	21.547	11.791	96.495	1.00 20.00
ATOM	1381	OG	SER	174	20.948	12.223	97.709	1.00 20.00
ATOM	1382		SER	174	22.229	9.761		
MOTA	1383	0	SER	174	21.762	10.013		1.00 20.00
ATOM	1384	N	CYS	175	23.350			
ATOM	1385		CYS	175	24.068			
MOTA	1386	CB	CYS	175	23.349	7.514	99.504	1.00 20.00

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MOTA 1387 CYS 175 23.313 5.847 98.761 1.00 20.00 SG 8.102 MOTA 1388 CYS 175 25.416 98.273 1.00 20.00 1.00 MOTA 1389 CYS 175 25.587 7.585 97.173 20.00 1390 176 26.428 99.144 1.00 20.00 MOTA TRP 8.289 176 27.758 98.885 ATOM 1391 TRP 7.808 1.00 20.00 1392 176 28.811 99.795 1.00 20.00 MOTA CB TRP 8.464 1393 176 28.970 99.510 ATOM CG TRP 9.942 1.00 20.00 1394 CD2 176 29.858 98.522 1.00 20.00 ATOM TRP 10.492 ATOM 1395 CD1 TRP 176 28.324 11.001 100.077 1.00 20.00 176 28.752 99.505 1.00 20.00 ATOM 1396 NE1 TRP 12.176 ATOM 1397 CE₂ TRP 176 29.697 11.877 98.547 1.00 20.00 MOTA 1398 CE3 TRP 176 30.737 9.892 97.666 1.00 20.00 CZ2 176 30.412 97.709 ATOM 1399 TRP 12.687 1.00 20.00 176 96.823 MOTA 1400 CZ3 TRP 31.457 10.710 1.00 20.00 MOTA 1401 CH2 TRP 176 31.296 12.080 96.843 1.00 20.00 176 27.786 ATOM 1402 TRP 6.323 99.068 1.00 20.00 MOTA 1403 0 TRP 176 28.502 5.609 98.366 1.00 20.00 177 ATOM 1404 N GLY 27,009 5.824 100.048 1.00 20.00 MOTA 1405 CA GLY 177 26.932 4.416 100.312 1.00 20.00 1406 C GLY 177 25.598 4.198 100.945 ATOM 1.00 20.00 1407 MOTA 24.833 5.142 101.132 0 GLY 177 1.00 20.00 1408 178 MOTA Ν ALA 25,258 2.939 101.274 1.00 20.00 178 CA ALA 2.740 101.918 MOTA 1409 23.995 1.00 20.00 MOTA 1410 CB ALA 178 23.463 1.300 101.813 1.00 20.00 ATOM 1411 ALA 178 24.195 3.049 103.365 1.00 20.00 178 MOTA 1412 O ALA 25.156 2.588 103.978 1.00 20.00 MOTA 1413 Ν GLY 179 23.291 3.858 103.950 1.00 20.00 179 MOTA 1414 CA GLY 23.422 4.184 105.341 1.00 20.00 179 MOTA 1415 С GLY 22.916 5.577 105.537 1.00 20.00 MOTA 1416 0 GLY 179 22.867 6.374 104.602 1.00 20.00 MOTA 1417 Ν GLU 180 22.525 5.898 106.785 1.00 20.00 MOTA 1418 CA GLU 180 22.012 7.195 107.111 1.00 20.00 ATOM 1419 CB GLU 180 21.604 7.297 108.592 1.00 20.00 ATOM 1420 CG GLU 180 20.414 6.415 108.976 1.00 20.00 MOTA 1421 CD GLU 180 19.136 7.190 108.693 1.00 20.00 OE 1 GLU ATOM 1422 180 19,242 8.369 108.261 1.00 20.00 GLU 180 MOTA 1423 OE2 18.035 6.616 108.912 1.00 20.00 MOTA 1424 C GLU 180 23.103 8.195 106.903 1.00 20.00 0 GLU 180 ATOM 1425 22.905 9.235 106.277 1.00 20.00 7.882 107.431 ATOM 1426 N GLU 181 24.299 1.00 20.00 CA GLU 181 ATOM 1427 25.443 8.746 107.365 1.00 20.00 GLU ATOM 1428 CB 181 26.633 8.195 108.170 1.00 20.00 ATOM 1429 CG GLU 181 27.875 9.086 108.136 1.00 20.00 CD GLU 181 ATOM 1430 28.952 8.409 108.973 1.00 20.00 GLU 181 ATOM 1431 OE.1 28.646 7.352 109.586 1.00 20.00 GLU 181 ATOM 1432 OE2 30.095 8.939 109.009 1.00 20.00 GLU 181 25.889 ATOM 1433 C 8.860 105.945 1.00 20.00 GLU 181 ATOM 1434 0 26.311 9.922 105.492 1.00 20.00 ASN 25.780 1.00 20.00 MOTA 1435 N 182 7.746 105.206 ASN 182 ATOM 1436 CA 26.275 7.631 103.869 1.00 20.00 26.103 ATOM 1437 CB ASN 182 6.214 103.305 1.00 20.00 CG ATOM 1438 ASN 182 27.010 5.283 104.099 1.00 20.00 OD1 ASN ATOM 1439 182 26.768 5.014 105.275 1.00 20.00 ND2 ASN 182 ATOM 1440 28.084 4.772 103.440 1.00 20.00 ASN 182 8.593 102.956 MOTA 1441 С 25.580 1.00 20.00 ATOM 1442 0 ASN 182 26.177 9.028 101.972 1.00 20.00 CYS ATOM 1443 N 183 24.305 8.930 103.248 1.00 20.00 9.796 102.409 ATOM 1444 CA CYS 183 23.517 1.00 20.00 СВ ATOM 1445 CYS 183 22.234 10.333 103.070 1.00 20.00 ATOM 1446 SG CYS 183 21.041 9.063 103.574 1.00 20.00 MOTA 1447 CYS 183 24.299 11.001 102.038 1.00 20.00 1448 0 CYS 183 25.111 11.502 102.813 ATOM 1.00 20.00 184 ATOM 1449 N GLN 24.122 11.429 100.774 1.00 40.00 GLN ATOM 1450 CA 184 24.817 12.571 100.279 1.00 40.00 GLN 184 CB 24.80R ATOM 1451 12,622 98.740 1.00 40.00 GLN CG 184 ATOM 1452 25.536 13.826 98.143 1.00 40.00 CD GLN ATOM 184 25.427 24.768 1453 13.713 96.628 1.00 40.00 OEl GLN 184 ATOM 1454 12.810 96.113 1.00 40.00 GLN 184 26.092 ATOM 1455 NE2 14.644 95.894 1.00 40.00 GLN 184 ATOM 1456 С 24.042 13.729 100.785 1.00 40.00 0 GLN 184 ATOM 1457 23.545 14.554 100.020 1.00 40.00 ATOM 1458 LYS 185 23.937 13.801 102.122 1.00 60.00 ATOM 1459 CA LYS 185 23.193 14,825 102,782 1.00 60.00 СВ LYS 185 ATOM 1460 23.129 14.586 104.302 1.00 60.00 ATOM CG LYS 185 15.362 105.034 1461 22,030 1.00 60.00 14.828 106.444 CD LYS 185 ATOM 1462 21.760 1.00 60.00 MOTA 1463 185 13.386 106.463 21.242

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1.00 60.00

ATOM	1464	NZ	LYS	185	21.056			1.00 60.00
ATOM:	1465		LYS	185				1.00 60.00
ATOM	1466	0	LYS	185				1.00 60.00
MOTA	1467	ìi	LEU	186				1.00 60.00
:4OTA	1468	CA	LEU	186			102.380 103.228	1.00 60.00 1.00 60.00
ATOM	1469	CB	LEU	186	27.228 26.966		103.226	1.00 60.00
ATOM	1470	CG CD1	LEU	186 186	26.349		105.164	1.00 60.00
MOTA MOTA	1471 1472		LEU	186	28.230		105.546	1.00 60.00
ATOM	1473	C	LEU	186	26.344		100.947	1.00 60.00
MOTA	1474	Ö	LEU	186	27.267		100.466	1.00 60.00
ATOM:	1475	1:	THR	187	25.637		100.226	1.00 60.00
ATOM	1476	CA	THR	187	25.998	18.719	98.884	1.00 60.00
MOTA	1477	СВ	THR	187	25.061	18.238	97.815 97.970	1.00 60.00
MOTA	1478	051	THR	187	23.785 24.947	18.834 16.708	97.901	1.00 60.00
MOTA	1479	CG2 C	THR THR	187 187	25.944	20.210	98.893	1.00 60.00
ATOM ATOM	1480 1481	0	THR	187	25.146	20.793	99.625	1.00 60.00
ATOM	1482	N	LYS	188	26.808	20.883	98.111	1.00 60.00
ATOM	1483	CA	LYS	188	26.824	22.312	98.227	1.00 60.00
ATOM	1484	CB	LYS	188	27,940	22.992	97.410	1.00 60.00
ATOM	1485	CG	LYS	188	27.754	22.935	95.892	1.00 60.00
ATOM	1486	CD	LYS	188	28.687	23.881	95.133	1.00 60.00 1.00 60.00
MOTA	1487	CE	LYS	188	28.505 27.288	23.842 24.596	93.615 93.239	1.00 60.00
MOTA	1488	ΝZ	LYS	188 188	25.520	22.866	97.766	1.00 60.00
MOTA	1489 1490	0	LYS LYS	188	24.898	23.672	98.457	1.00 60.00
MOTA MOTA	1490	14	ILE	189	25.062	22.432	96.580	1.00 60.00
ATOM	1492	CA	ILE	189	23.844	22.955	96.045	1.00 60.00
ATOM	1493	CB	ILE	189	23.578	22.493	94.642	1.00 60.00
ATOM	1494	CG2	ILE	189	22.174	22.972	94.235	1.00 60.00
ATOM	1495	CG1		189	24.696	22.988	93.709 92.327	1.00 60.00 1.00 60.00
ATOM	1496	CD1		189	24.675 22.706	22.336 22.515	96.898	1.00 60.00
MOTA	1497 1498	C O	ILE ILE	189 189	21.809	23.302	97.202	1.00 60.00
ATOM ATOM	1499	N	ILE	190	22.712	21.239	97.328	1.00 60.00
ATOM	1500	CA	ILE	190	21.571	20.792	98.061	1.00 60.00
ATOM	1501	CB	ILE	190	21.090	19.429	97.664	1.00 60.00
MOTA	1502	CG2		190	19.977	19.021	98.641	1.00 60.00 1.00 60.00
MOTA	1503	CG1		190	20.662 19.540	19.425	96.187 95.881	1.00 60.00
MOTA	1504	CDI	ILE	190 190	21.862	20.750	99.521	1.00 60.00
MOTA MOTA	1505 1506	С 0	ILE	190	22.747	20.040	99.995	1.00 60.00
MOTA	1507	N	CYS	191	21.072	21.539	100.263	1.00 20.00
ATOM	1508	CA	CYS	191	21.065	21.609	101.689	1.00 20.00
MOTA	1509	CB	CYS	191	22.170	22.473	102.340	1.00 20.00
MOTA	1510	SG	CYS	191	22.159	22.254	104.150	1.00 20.00 1.00 20.00
ATOM	1511	C	CYS	191 191	19.747 18.784	22.242	101.948	1.00 20.00
MOTA MOTA	1512 1513	о 0	CYS ALA	192	19.636	23.097	102.974	1.00 20.00
ATOM	1514	CA	ALA	192	18.346	23.705	103.116	1.00 20.00
ATOM	1515	CB	ALA	192	18.227	24.618		1.00 20.00
ATOM	1516	С	ALA	192	18.198	24.559		1.00 20.00
MOTA	1517	0	ALA	192	19.183	25.063		1.00 20.00
ATOM	1518	N	GLN	193	16.957 16.750		101.411	1.00 20.00
MOTA	1519		GLN GLN	193 193	15.265	25.621		1.00 20.00
ATOM ATOM	1520 1521	CG	GLN	193	15.034	26.442		1.00 20.00
MOTA	1522	CD	GLN	193	13.554	26.787	98.487	1.00 20.00
MOTA	1523		1 GLN	193	12.685	25.942		1.00 20.00
ATOM	1524	NE	2 GLN	193	13.257	28.078		1.00 20.00
MOTA	1525		GLN	193	17.226	26.890	99.607	1.00 20.00
ATOM	1526		GLN GLN	193 194	17.903 16.865		101.611	1.00 20.00
MOTA MOTA	1527 1528			194	17.176		101.927	1.00 20.00
ATOM	1529			194	16.434		103.168	1.00 20.00
ATOM	1530			194	14.946	29.591	102.911	1.00 20.00
MOTA	1531		GLN	194	14.829		102.012	1.00 20.00
MOTA	1532			194	14.266		102.409	1.00 20.00
MOTA	1533			194	15.375		7 100.770 1 102.144	
MOTA	1534		GLN GLN	194 194	18.636 19.155		102.144	1.00 20.00
MOTA MOTA	1535 1536		CYS	195	19.338		102.772	
ATOM	1537			195	20.717		5 103.100	1.00 20.00
ATOM	1536		CYS	195	21.440		2 103.762	
ATOM	1539) SG		195	20.920		5 105.478	
MOTA	1540) С	CYS	195	21.489	28.67	5 101.881	1.00 20.00

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MOTA	1541	0	C7.2	195	21	.258	28.163	100.786	1.00 20.00
ATOM	1542		SER	196		.420			1.00 20.00
ATOM	1543		SER	196	23	.256		100.992	1.00 20.00
ATOM	1544	CB	SER	196	23	.147		100.711	1.00 20.00
MOTA	1545	OG	SER	196		.007	31.938	99.640	1.00 20.00
MOTA	1546		SER	196		.654		101.435	1.00 20.00
MOTA	1547		SER	196		.961		102.626	1.00 20.00
MOTA	1548		GLY	197		5.546		100.478 100.853	1.00 20.00
ATOM	1549		GLY	197		5.896 5.969		100.855	1.00 20.00
MOTA	1550		GLY	197 197		5.984		100.404	1.00 20.00
MOTA	1551 1552	0 N	GLY ARG	198		.018		102.578	1.00 20.00
ATOM ATOM	1553	CA	ARG	198		1.135		103.025	1.00 20.00
ATOM	1554	CB	ARG	198		3.563	25.809	103.458	1.00 20.00
ATOM	1555	CG	ARG	198	29	628		102.410	1.00 20.00
MOTA	1556	CD	ARG	198		3.342		101.005	1.00 20.00
MOTA	1557	NE	ARG	198		0.472	26.087	100.137	1.00 20.00
MOTA	1558	CZ	ARG	198		3.458	27.330	99.573 99.807	1.00 20.00
ATOM	1559		ARG	198		9.415 1.493	28.178 27.730	98.778	1.00 20.00
ATOM	1560	NH2		198 198		5.263		104.229	1.00 20.00
MOTA	1561 1562	С 0	ARG ARG	198		5.555	26.956	104.618	1.00 20.00
MOTA MOTA	1563	И	CYS	199		6.261	24.821	104.836	1.00 20.00
ATOM	1564	CA	CYS	199		5.438	24.635	105.994	1.00 20.00
ATOM	1565	СВ	CYS	199	2	4.029	24.136	105.630	1.00 20.00
ATOM	1566	SG	CYS	199	2	4.083	22.554	104.740	1.00 20.00
ATOM	1567	С	CYS	199		6.071	23.617	106.894	1.00 20.00
MOTA	1568	0	CYS	199		6.749	22.697	106.437	1.00 20.00
MOTA	1569	N	ARG	200		5.879	23.785	108.220	1.00 20.00
MOTA	1570	CA	ARG	200		6.388 6.172	22.844	109.176	1.00 20.00
ATOM	1571	CB	arg arg	200 200		6.619	22.240	111.653	1.00 20.00
MOTA	1572 1573	CG CD	ARG	200		6.231	22.582	113.093	1.00 20.00
ATOM ATOM	1574	NE	ARG	200		6.636	21.432	113.950	1.00 20.00
ATOM	1575	CZ	ARG	200	2	5.759	20.411	114.180	1.00 20.00
MOTA	1576	NH1	ARG	200		4.507	20.448	113.637	1.00 20.00
MOTA	1577	NH2	ARG	200		6.138	19.352	114.953	1.00 20.00
MOTA	1578	С	ARG	200		5.634	21.571	108.991 108.928	1.00 20.00 1.00 20.00
MOTA	1579	0	ARG	200		6.211	20.486	108.928	1.00 20.00
MOTA	1580	N CA	GLY GLY	201 201		3.466	20.541	108.701	1.00 20.00
MOTA MOTA	1581 1582	Ç	GLY	201		2.504	20.899	107.622	1.00 20.00
ATOM	1583	ō	GLY	201		2.487	22.032	107.146	1.00 20.00
ATOM	1584	N	LYS	202	2	1.671	19.931	107.205	1.00 20.00
MOTA	1585	CA	LYS	202		20.746	20.212		1.00 20.00
MOTA	1586	CB	LYS	202		9.964	18.978		1.00 20.00
ATOM	1587	CG	LYS	202		8.904	18.489 17.492		1.00 20.00
ATOM	1588	CD	LYS	202		.7.921 6.722	17.176		1.00 20.00
ATOM	1589 1590	CE NZ	LYS LYS	202 202		7.175	16.521		1.00 20.00
ATOM ATOM	1591	C	LYS	202		19.757	21.209		1.00 20.00
ATOM	1592	o	LYS	202		19.178			1.00 20.00
MOTA	1593	N	SER	203	1	19.547			1.00 20.00
ATOM	1594	CA	SER	203	1	18.590		108.566	1.00 20.00
MOTA	1595	CB	SER	203		18.554		110.103	1.00 20.00
ATOM	1596	OG	SER	203		19.783		110.629	1.00 20.00
ATOM	1597	C	SER SER	203 203		18.935 20.099		108.017	1.00 20.00
MOTA MOTA	1598 1599	о И	PRO	204		17.900		107.926	1.00 20.00
ATOM	1600		PRO	204		18.059			1.00 20.00
ATOM	1601		PRO	204		16.689	23.710	107.368	1.00 20.00
ATOM	1602		PRO	204		16.707		3 106.989	1.00 20.00
MOTA	1603	CG	PRO	204		16.076		106.477	1.00 20.00
MOTA	1604		PRO	204		18.513		3 108.699	1.00 20.00
ATOM	1605		PRO	204		18.963		2 108.484	1.00 20.00
MOTA	1606		SER	205 205		18.384 18.742		3 111.079	
MOTA MOTA	1607 1608			205		18.444		3 112.403	
ATOM	1609			205		18.825		5 113.496	
ATOM	1610		SER	205		20.208			
ATOM	1611		SER	205		20.633	3 28.15	9 111.324	
MOTA	1612		ASP	206		21.029			
ATOM	1613	CA		206		22.43		B 110.780	
MOTA	1614			206		23.20		7 111.522	
ATOM	1615			206 206		22.96		3 110.833 8 109.844	
ATOM ATOM	1616 1617		1 ASP 2 ASP	206		23.55		7 111.293	
AION	101	. 02					=		

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		_		200	22 000	26,457 109,416	1.00 20.00
MOTA	1618	C	ASP	206	23.009		1.00 20.00
ATOM:	1619	C	ASP	206	23.739		1.00 20.00
ATON	1620	N	CYS	207	22.698	27.600 108.781	
MOTA	1621	CA	CYS	207	23.320	27.850 107.520	1.00 20.00
MOTA	1622	CB	CYS	207	22.685	28.994 106.712	1.00 20.00
ATOM	1623	SG	CYS	207	20.941	28.696 106.295	1.00 20.00
ATOM:	1624	C	CXS	207	24.714	28.252 107.882	1.00 20.00
ATOM:	1625	0	CYS	207	25.069	28.244 109.060	1.00 20.00
MOTA	1626	N	CYS	208	25.558	28.599 106.891	1.00 20.00
ATOM	1627	CA	CYS	208	26.904	28.962 107.237	1.00 20.00
ATOM	1628	СВ	CYS	208	28.002	28.034 106.664	1.00 20.00
ATOM	1629	SG	CYS	208	27.933	26.297 107.211	1.00 20.00
MOTA	1630	C	CYS	208	27.182	30.318 106.673	1.00 20.00
	1631	0	CYS	208	26.354	30.904 105.978	1.00 20.00
MOTA		N	HIS	209	28.378	30.856 106.983	1.00 20.00
MOTA	1632			209	28.761	32.157 106.516	1.00 20.00
ATOM	1633	CA	HIS	209	31.205	34.449 105.754	1.00 20.00
ATOM:	1634		HIS			36.333 106.757	1.00 20.00
ATOM	1635	NE2	HIS	209	30.583	35.802 105.767	1.00 20.00
MOTA	1636	CE1	HIS	209	31.279		1.00 20.00
ATOM	1637		HIS	209	30.033		1.00 20.00
MOTA	1638	CG	HIS	209	30.404	34.084 106.813	
ATOM	1639	CB	HIS	209	30.067	32.664 107.158	1.00 20.00
MOTA	1640	С	HIS	209	28.948	32.079 105.033	1.00 20.00
MOTA	1641	0	HIS	209	29.128	31.004 104.466	1.00 20.00
MOTA	1642	И	ASN	210	28.893	33.246 104.367	1.00 20.00
MOTA	1643	CA	ASN	210	29.004	33.331 102.939	1.00 20.00
ATOM	1644	CB	ASN	210	28.846	34.774 102.428	1.00 20.00
MOTA	1645	CG	ASN	210	28.714	34.761 100.911	1.00 20.00
MOTA	1646	OD1	ASN	210	28.882	33.733 100.258	1.00 20.00
ATOM	1647	ND2	ASN	210	28.416	35.952 100.326	1.00 20.00
ATOM	1648	С	ASN	210	30.363	32.852 102.527	1.00 20.00
ATOM	1649	0	ASN	210	30.515	32.222 101.481	1.00 20.00
ATOM	1650	N	GLN	211	31.390	33.178 103.333	1.00 20.00
ATOM	1651	CA	GLN	211	32.767	32.859 103.063	1.00 20.00
ATOM	1652	CB	GLN	211	33.737	33.596 104.003	1.00 20.00
ATOM	1653	CG	GLN	211	33.714	35.117 103.836	1.00 20.00
ATOM	1654	CD	GLN	211	34.323	35.463 102.485	1.00 20.00
ATOM	1655	OE1		211	34.683	34.585 101.701	1.00 20.00
ATOM	1656	NE2		211	34.442	36.787 102.201	1.00 20.00
ATOM	1657	C	GLN	211	33.052	31.398 103.194	1.00 20.00
ATOM	1658	Ö	GLN	211	33.849	30.857 102.430	1.00 20.00
ATOM	1659	N	CYS	212	32.426	30.716 104.172	1.00 20.00
ATOM	1660	CA	CYS	212	32.752	29.336 104.389	1.00 20.00
MOTA	1661	CB	CYS	212	31.903	28.637 105.463	1.00 20.00
MOTA	1662	SG	CYS	212	32.242	29.235 107.138	1.00 20.00
	1663	C	CYS	212	32.532	28.570 103.132	1.00 20.00
ATOM ATOM	1664	0	CYS	212	31.654	28.890 102.334	1.00 20.00
	1665	N	ALA	213	33.386	27.555 102.909	1.00 20.00
MOTA	1666	CA	ALA	213	33.223	26.691 101.786	1.00 20.00
ATOM	1667		ALA	213	34.360	26.783 100.754	1.00 20.00
ATOM		CB	ALA	213	33.221	25.317 102.367	1.00 20.00
ATOM	1668	С		213	33.860	25.080 103.391	1.00 20.00
ATOM	1669	0	ALA	214	32.475	24.386 101.743	1.00 20.00
ATOM.	1670	N CA	ALA ALA	214	32.371	23.039 102.226	1.00 20.00
MOTA	1671				55 655	22.431 102.779	
ATOM	1672	СВ	ALA	214 214	33.6//	22.983 103.291	1.00 20.00
ATOM	1673	C	ALA				
ATOM	1674	0	ALA	214	30.179	22.609 103.012 23.351 104.545	
ATOM	1675	N	GLY	215	31.668		
ATOM	1676	CA	GLY	215	30.697	23.270 105.605	
MOTA	1677	C	GLY	215	31.138	24.140 106.743	
MOTA	1678	0	GLY	215	31.970	25.030 106.574	
MOTA	1679	N	CYS	216	30.546	23.934 107.939	
ATOM	1680	CA	CYS	216	30.951	24.718 109.070	
ATOM	1681	CB	CYS	216	30.396	26.163 109.050	
ATOM	1682	SG	CYS	216	28.581	26.299 109.142	
ATOM	1683	C	CYS	216	30.505	24.038 110.327	
ATOM	1684	0	CYS	216	29.540	23.275 110.333	
ATOM	1685	N	THR	217	31.244	24.267 111.432	
MOTA	1686	CA	THR	217	30.866	23.699 112.693	
MOTA	1687	СЭ	THR	217	31.891	23.910 113.766	
ATOM	1688	OG:		217	32.063	25.297 114.016	
MOTA	1689	CG		217	33.215	23.275 113.306	
MOTA	1690	С	THR	217	29.606	24.371 113.122	
MOTA	1691	0	THR	217	28.677	23.731 113.613	
MOTA	1692	N	GLY	218	29.556	25.702 112.929	
MOTA	1693	CA	GLY	218	28.405	26.480 113.274	
MOTA	1694	C	GLY	218	28.579	27.771 112.553	1.00 20.00

APONC 1695							
ACCOL: 1595 N PRO 219	n.m.o.v	1695	O 67.Y	218	29.697	28.095 112.124	1.00 20.00
Series 1697 CR PRO 219							
1698 CD							
ATOM: 1699 CE PRO 199 C5.156 30.370 111.845 1.00 20.00 ATOM: 1701 C PRO 199 28.636 30.504 112.237 1.00 20.00 ATOM: 1702 O PRO 219 28.636 30.604 112.263 1.00 20.00 ATOM: 1703 N ARG 220 29.872 30.688 111.593 1.00 20.00 ATOM: 1703 N ARG 220 30.887 31.495 112.055 1.00 20.00 ATOM: 1705 CB ARG 220 31.665 30.870 113.235 1.00 20.00 ATOM: 1705 CB ARG 220 31.665 30.870 113.235 1.00 20.00 ATOM: 1707 CD ARG 220 31.665 30.870 113.235 1.00 20.00 ATOM: 1707 CD ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM: 1707 CD ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM: 1707 CD ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM: 1707 CD ARG 220 30.925 31.532 115.532 1.00 20.00 ATOM: 1709 CZ ARG 220 30.925 31.532 115.532 1.00 20.00 ATOM: 1709 CZ ARG 220 30.772 31.832 115.432 1.00 20.00 ATOM: 1709 CZ ARG 220 31.552 31.532 115.552 1.00 20.00 ATOM: 1701 NH1 ARG 220 31.532 34.190 116.750 1.00 20.00 ATOM: 1711 NH2 ARG 220 31.557 33.453 116.990 1.00 20.00 ATOM: 1713 O ARG 220 31.987 30.628 110.154 1.00 20.00 ATOM: 1713 O ARG 220 31.987 30.628 110.154 1.00 20.00 ATOM: 1714 N GUJ 221 33.599 32.850 109.825 1.00 20.00 ATOM: 1715 CA GUJ 221 33.599 32.850 109.825 1.00 20.00 ATOM: 1716 CB GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1716 CB GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1719 CD GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1719 CB GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.4288 109.775 1.00 20.00 ATOM: 1720 O ED GUJ 221 33.694 38.					_		
ATOM 1700 CG PRO 219							
ATOM							
APPEN	ATOM:					_	
ATOM: 1703 N ARG 220	ATOM						
1706	ATO::	1702	O PRO	219			
ATOM: 1706 CB ARG 220 30.887 31.495 112.065 1.00 20.00 ATOM: 1706 CG ARG 220 30.825 30.870 113.251 1.00 20.00 ATOM: 1706 CG ARG 220 30.925 30.872 114.489 1.00 20.00 ATOM: 1708 NE ARG 220 30.773 31.832 115.432 1.00 20.00 ATOM: 1708 NE ARG 220 32.158 32.053 115.935 1.00 20.00 ATOM: 1700 NH1 ARG 220 31.532 34.190 116.720 1.00 20.00 ATOM: 1710 NH1 ARG 220 31.532 34.190 116.720 1.00 20.00 ATOM: 1710 NH1 ARG 220 31.553 33.227 116.550 1.00 20.00 ATOM: 1713 0 ARG 220 31.555 33.453 116.990 1.00 20.00 ATOM: 1713 0 ARG 220 31.555 33.453 116.990 1.00 20.00 ATOM: 1715 CA GLU 221 32.594 32.690 110.835 1.00 20.00 ATOM: 1716 CR GLU 221 33.595 32.895 109.825 1.00 20.00 ATOM: 1716 CR GLU 221 33.694 36.692 109.825 1.00 20.00 ATOM: 1716 CR GLU 221 33.694 36.692 109.420 1.00 20.00 ATOM: 1719 ORI GLU 221 33.694 36.692 109.420 1.00 20.00 ATOM: 1719 ORI GLU 221 33.994 36.692 109.420 1.00 20.00 ATOM: 1719 ORI GLU 221 33.994 36.692 109.420 1.00 20.00 ATOM: 1712 CR GLU 221 33.994 31.994 10.00 20.00 ATOM: 1712 CR GLU 221 33.994 31.994 110.155 1.00 20.00 ATOM: 1712 CR GLU 221 32.936 39.891 109.343 1.00 20.00 ATOM: 1721 CR GLU 221 32.936 39.891 109.343 1.00 20.00 ATOM: 1722 CR GLU 221 32.936 39.891 109.343 1.00 20.00 ATOM: 1722 CR GLU 221 32.936 39.891 109.343 1.00 20.00 ATOM: 1723 CR GR ER 222 36.091 30.965 111.970 1.00 20.00 ATOM: 1723 CR GR ER 222 36.091 30.965 111.970 1.00 20.00 ATOM: 1724 CR SER 222 36.091 30.965 111.970 1.00 20.00 ATOM: 1725 CR SER 222 36.398 31.392 109.271 1.00 20.00 ATOM: 1728 CR SER 222 35.504 28.664 111.741 1.00 20.00 ATOM: 1728 CR SER 222 35.505 131.855 131.855 131.050 20.00 ATOM: 1738 CR SER 223 36.398 31.392 109.271 1.00 20.00 ATOM: 1738 CR SER 223 36.398 31.392 109.271 1.00 20.00 ATOM: 1738 CR SER 223 36.398 31.392 109.271 1.00 20.00 ATOM: 1738 CR SER 223 36.481 1.385 131.951 131.951 10.00 20.00 ATOM: 1738 CR SER 223 36.398 31.392 109.271 1.00 20.00 ATOM: 1738 CR SER 223 36.989 27.881 131.991 11.994 1.00 20.00 ATOM: 1739 CR SER 223 33.493 2.29.595 131.855 131.00 20.00 CR ATOM: 1736 CR SER 223 34.462 28.664 131	ATOM:	1703	N ARG	220	29.802		
ATOM 1705 CG ARG 220 31.565 30.670 113.235 1.00 20.00 ATOM 1707 CD ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM 1707 CD ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM 1708 NE ARG 220 32.158 32.053 115.935 1.00 20.00 ATOM 1709 NE ARG 220 32.158 32.053 115.935 1.00 20.00 ATOM 1710 NH1 ARG 220 31.552 34.190 116.720 1.00 20.00 ATOM 1711 NH2 ARG 220 31.553 34.190 116.720 1.00 20.00 ATOM 1712 C ARG 220 31.557 33.453 116.990 1.00 20.00 ATOM 1713 O ARG 220 31.887 31.565 110.941 1.00 20.00 ATOM 1713 O ARG 220 31.887 31.565 110.941 1.00 20.00 ATOM 1715 CA GLU 221 32.594 22.690 110.835 1.00 20.00 ATOM 1715 CA GLU 221 33.599 32.850 109.825 1.00 20.00 ATOM 1716 CB GLU 221 33.694 36.692 109.825 1.00 20.00 ATOM 1717 CG GLU 221 33.694 36.692 109.420 1.00 20.00 ATOM 1719 OEI GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1719 OEI GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1719 OEI GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1719 C G GLU 221 33.494 36.692 109.825 1.00 20.00 ATOM 1720 C GLU 221 34.496 36.771 109.550 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.825 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.825 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.825 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.420 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.420 1.00 20.00 ATOM 1720 C GLU 221 34.939 31.392 109.420 1.00 20.00 ATOM 1721 C G GLU 221 34.939 31.392 109.420 1.00 20.00 ATOM 1722 C GLU 221 34.739 31.394 110.156 1.00 20.00 ATOM 1724 C A SER 222 35.024 31.755 111.452 1.00 20.00 ATOM 1726 C G SER 222 35.024 31.755 111.452 1.00 20.00 ATOM 1726 C G SER 222 35.034 31.924 111.914 1.00 20.00 ATOM 1730 C A SSP 223 36.091 30.965 111.910 1.00 20.00 ATOM 1731 CB ASP 223 36.494 29.507 111.851 1.00 20.00 ATOM 1731 CB ASP 223 33.494 27.861 111.914 1.00 20.00 ATOM 1731 CB ASP 223 33.494 27.861 111.914 1.00 20.00 ATOM 1731 CB ASP 223 34.494 29.507 111.851 1.00 20.00 ATOM 1731 CB ASP 223 33.494 27.861 111.914 1.00 20.00 ATOM 1734 CD ASP 223 34.496 29.507 111.851 1.00 20.00 ATOM 1736 C ASP 223 34.496 30.662 113.802 1.00 2		1704	CA ARG	220	30.887	31.495 112.065	
ATOM 1706 CG ARG 220 30.925 30.632 114.489 1.00 20.00 ATOM 1707 CD ARG 220 30.773 31.832 115.432 1.00 20.00 ATOM 1708 NE ARG 220 32.483 33.227 116.550 1.00 20.00 ATOM 1711 NH2 ARG 220 31.583 33.227 116.550 1.00 20.00 ATOM 1711 NH2 ARG 220 31.583 33.227 116.550 1.00 20.00 ATOM 1712 C ARG 220 31.587 33.453 116.990 1.00 20.00 ATOM 1713 NH2 ARG 220 31.587 33.453 116.990 1.00 20.00 ATOM 1714 N GLU 221 32.594 32.690 110.835 1.00 20.00 ATOM 1715 CR GLU 221 33.599 32.850 109.825 1.00 20.00 ATOM 1716 CR GLU 221 33.699 35.307 109.825 1.00 20.00 ATOM 1716 CR GLU 221 33.694 35.307 109.379 1.00 20.00 ATOM 1716 CR GLU 221 33.694 36.692 109.420 1.00 20.00 ATOM 1719 CR GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1720 CR GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1721 CR GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1720 CR GLU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1721 CR GLU 221 33.494 37.993 1.00 20.00 ATOM 1721 CR GLU 221 33.993 31.392 109.521 1.00 20.00 ATOM 1720 CR GLU 221 33.993 31.392 109.521 1.00 20.00 ATOM 1720 CR GLU 221 36.399 31.392 109.521 1.00 20.00 ATOM 1720 CR GLU 221 36.399 31.392 109.521 1.00 20.00 ATOM 1720 CR GLU 221 36.399 31.392 109.521 1.00 20.00 ATOM 1720 CR GLU 221 36.399 31.392 109.521 100 20.00 ATOM 1721 CR GLU 221 36.399 31.392 109.521 100 20.00 ATOM 1721 CR GLU 221 36.399 31.392 111.991 1.00 20.00 ATOM 1721 CR GLU 222 36.091 30.965 111.991 1.00 20.00 ATOM 1721 CR GLU 222 36.091 30.965 111.991 1.00 20.00 ATOM 1721 CR GLU 222 36.091 30.965 111.991			CB ARG	220	31.665	30.870 113.235	1.00 20.00
ATOM 1707 CD ARG 220 30.773 31.832 115.432 1.00 20.00 ATOM 1708 NE ARG 220 32.188 33.273 115.935 1.00 20.00 ATOM 1710 NH1 ARG 220 32.183 33.277 116.550 1.00 20.00 ATOM 1711 NH2 ARG 220 31.532 34.190 116.720 1.00 20.00 ATOM 1711 NH2 ARG 220 31.587 31.585 110.941 1.00 20.00 ATOM 1712 C ARG 220 31.887 31.585 110.941 1.00 20.00 ATOM 1713 O ARG 220 31.887 31.585 110.941 1.00 20.00 ATOM 1714 N GUU 221 32.594 32.690 110.835 1.00 20.00 ATOM 1716 CB GUU 221 33.599 32.880 109.825 1.00 20.00 ATOM 1716 CB GUU 221 33.699 35.307 109.379 1.00 20.00 ATOM 1716 OEI GUU 221 33.694 36.692 109.420 1.00 20.00 ATOM 1718 OEI GUU 221 33.494 36.692 109.420 1.00 20.00 ATOM 1720 OEZ GUU 221 34.946 36.771 109.530 1.00 20.00 ATOM 1720 OEZ GUU 221 34.946 36.771 109.530 1.00 20.00 ATOM 1721 C GUU 221 34.799 31.392 110.156 1.00 20.00 ATOM 1721 C GUU 221 34.799 31.392 110.156 1.00 20.00 ATOM 1722 C GUU 221 35.399 31.392 110.452 1.00 20.00 ATOM 1724 CA SER 222 36.094 31.392 111.452 1.00 20.00 ATOM 1727 C SER 222 36.398 31.242 13.453 1.00 20.00 ATOM 1726 OB SER 222 35.704 29.507 111.452 1.00 20.00 ATOM 1730 CA SER 222 35.704 29.507 111.651 1.00 20.00 ATOM 1731 CB SER 222 35.704 29.507 111.651 1.00 20.00 ATOM 1731 CB SER 222 35.704 29.507 111.651 1.00 20.00 ATOM 1731 CB SER 222 35.704 29.507 111.651 1.00 20.00 ATOM 1731 CB SER 222 35.704 29.507 111.651 1.00 20.00 ATOM 1731 CB SER 223 34.451 29.179 111.651 1.00 20.00 ATOM 1731 CB SER 223 34.451 29.179 111.651 1.00 20.00 ATOM 1733 OD 20.20 35.309 27.661 11					30.925	30.632 114.489	1.00 20.00
TOTO						31.832 115.432	1.00 20.00
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ATOM 1716 CB GLU 221 34.140 34.288 109.775 1.00 20.00 ATOM 1717 CG GLU 221 33.069 35.307 109.379 1.00 20.00 ATOM 1718 CD GLU 221 33.069 35.307 109.379 1.00 20.00 ATOM 1719 CD GLU 221 33.069 36.771 109.530 1.00 20.00 ATOM 1720 OE2 GLU 221 34.739 31.934 110.156 1.00 20.00 ATOM 1721 C GLU 221 34.739 31.934 110.156 1.00 20.00 ATOM 1722 O GLU 221 35.399 31.392 109.271 1.00 20.00 ATOM 1722 O GLU 221 35.399 31.392 109.271 1.00 20.00 ATOM 1723 N SER 222 35.024 31.785 111.462 1.00 20.00 ATOM 1725 CB SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1726 OS SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1727 C SER 222 35.300 30.848 114.261 1.00 20.00 ATOM 1727 C SER 222 35.300 30.848 114.261 1.00 20.00 ATOM 1728 O SER 222 35.300 30.848 114.261 1.00 20.00 ATOM 1729 N ASP 223 34.451 29.1507 111.851 1.00 20.00 ATOM 1730 CA ASP 223 34.451 29.1507 111.851 1.00 20.00 ATOM 1731 CB ASP 223 34.451 29.1507 111.851 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1734 OD2 ASP 223 33.499 27.831 111.941 1.00 20.00 ATOM 1735 C ASP 223 33.499 27.831 111.941 1.00 20.00 ATOM 1736 O ASP 223 33.497 28.467 11.4371 1.00 20.00 ATOM 1736 O ASP 223 33.4162 27.068 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.130 25.839 110.685 1.00 20.00 ATOM 1738 CA CYS 224 34.130 25.839 110.685 1.00 20.00 ATOM 1738 CA CYS 224 34.130 25.839 110.685 1.00 20.00 ATOM 1738 CB CYS 224 34.488 27.151 108.225 1.00 20.00 ATOM 1738 CB CYS 224 34.488 27.151 108.225 1.00 20.00 ATOM 1738 CB CYS 224 34.488 27.151 108.225 1.00 20.00 ATOM 1738 CB CYS 224 34.488 27.151 108.225 1.00 20.00 ATOM 1746 CB CUS 225 34.996 22.552 106.272 1.00 20.00 ATOM 1747 CDL EUU 225 34.996 22.552 106.272 1.00 20.00 ATOM 1747 CDL EUU 225 34.996 22.552 106.272 1.00 20.00 ATOM 1748 CB CUS 225 34.996 22.552 106.272 1.00 20.00 ATOM 1748 CB CUS 225 34.996 22.552 106.272 1.00 20.00 ATOM 1749 C CUS 224 34.342 29.569 107.044 1.00 20.00 ATOM 1745 CB EUU 225 34.996 22.552 106.272 1.00 20.00 ATOM 1750 CB VAL 226 35.893 31.600 102.296 1.00 20.00	MOTA						
ATOM 1717 CG GLU 221 33.069 35.307 109.379 1.00 20.00 ATOM 1718 CD GLU 221 33.069 36.692 109.420 1.00 20.00 ATOM 1719 OE1 GLU 221 33.94 36.692 109.420 1.00 20.00 ATOM 1720 OE2 GLU 221 34.946 36.771 109.530 1.00 20.00 ATOM 1721 C GLU 221 34.946 36.771 109.530 1.00 20.00 ATOM 1722 O GLU 221 34.739 31.934 110.156 1.00 20.00 ATOM 1723 N SER 222 35.024 31.785 111.462 1.00 20.00 ATOM 1723 N SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1726 OS SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1726 OS SER 222 35.300 30.848 114.261 1.00 20.00 ATOM 1727 C SER 222 35.300 30.848 114.261 1.00 20.00 ATOM 1728 O SER 222 35.754 29.507 111.851 1.00 20.00 ATOM 1728 O SER 222 36.422 8.664 111.741 1.00 20.00 ATOM 1729 N ASP 223 34.451 29.179 111.994 1.00 20.00 ATOM 1730 CA ASP 223 33.407 28.464 11.741 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1733 ODI ASP 223 33.407 28.047 114.393 1.00 20.00 ATOM 1733 ODI ASP 223 33.407 28.047 114.393 1.00 20.00 ATOM 1736 C ASP 223 33.407 28.047 114.393 1.00 20.00 ATOM 1736 C ASP 223 33.407 28.047 114.393 1.00 20.00 ATOM 1736 C ASP 223 34.451 27.745 112.315 1.00 20.00 ATOM 1736 C ASP 223 34.451 27.745 112.315 1.00 20.00 ATOM 1736 C ASP 223 34.451 27.745 112.315 1.00 20.00 ATOM 1736 C ASP 223 34.462 27.068 110.665 1.00 20.00 ATOM 1736 C ASP 223 34.462 27.068 110.665 1.00 20.00 ATOM 1736 C ASP 223 34.438 27.776 100.9527 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1740 C CYS 224 35.355 20.98 10.695 1.00 20.00 ATOM 1741 C CYS 224 35.350 22.308 10.7044 1.00 20.00 ATOM 1743 N LEU 225 34.986 27.552 106.727 1.00 20.00 ATOM 1746 C C CYS 224 35.350 22.3766 107.044 1.00 20.00 ATOM 1747 C DI LEU 225 34.868 24.117 106.185 1.00 20.00 ATOM 1746 C C CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1747 C DI LEU 225 34.688 24.117 106.185 1.00 20.00 ATOM 1750 C C CYS 227 37.699 27.551 100.3041 1.00 20.00 ATOM 1755 C C VAL 226 36.852 24.117 100.307 1.00 20.00 ATOM	MOTA	1715	CA GLU				
ATOM 1718 CD GIU 221 33.694 36.692 109.420 1.00 20.00 ATOM 1719 OEI GIU 221 34.946 36.771 109.530 1.00 20.00 ATOM 1720 OE2 GIU 221 32.928 37.691 109.343 1.00 20.00 ATOM 1721 C GIU 221 34.739 31.934 10.156 1.00 20.00 ATOM 1722 O GIU 221 35.399 31.392 109.271 1.00 20.00 ATOM 1723 N SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1724 CA SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1725 CB SER 222 36.399 31.992 109.271 1.00 20.00 ATOM 1726 OG SER 222 36.399 31.992 109.271 1.00 20.00 ATOM 1727 C SER 222 36.399 31.992 109.271 1.00 20.00 ATOM 1727 C SER 222 36.399 31.992 110.453 1.00 20.00 ATOM 1727 C SER 222 36.399 31.992 111.945 1.00 20.00 ATOM 1727 C SER 222 36.399 31.992 111.945 1.00 20.00 ATOM 1728 O SER 222 35.754 29.507 111.851 1.00 20.00 ATOM 1729 N ASP 223 34.451 29.179 111.904 1.00 20.00 ATOM 1730 CA ASP 223 34.451 29.179 111.904 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1731 CB ASP 223 32.461 27.745 112.315 1.00 20.00 ATOM 1731 CB ASP 223 32.462 27.068 113.802 1.00 20.00 ATOM 1733 ODI ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1734 OD ASP 223 34.130 25.839 110.685 1.00 20.00 ATOM 1736 O ASP 223 34.130 25.839 110.685 1.00 20.00 ATOM 1736 O ASP 223 34.130 25.839 110.685 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1740 SG CYS 224 34.282 28.686 117.151 100.225 1.00 20.00 ATOM 1740 SG CYS 224 34.398 27.765 110.022 1.00 20.00 ATOM 1740 C CYS 224 34.398 27.766 107.228 1.00 20.00 ATOM 1741 C CYS 224 34.984 24.921 107.449 1.00 20.00 ATOM 1745 C B EU CYS 244 35.353 25.951 108.244 1.00 20.00 ATOM 1747 CDI LEU 225 33.995 22.038 107.155 1.00 20.00 ATOM 1745 C B EU 225 34.986 22.552 106.727 1.00 20.00 ATOM 1745 C B EU 225 34.986 22.552 106.727 1.00 20.00 ATOM 1745 C B EU 225 33.995 22.038 107.156 1.00 20.00 ATOM 1755 C G VAL 226 36.85 26.28 31.10 103.414 1.00 20.00 ATOM 1756 C AVAL 226 36.854 26.221 103.807 1.00 20.00 ATOM 1757 C AVAL 226 36.854 26.221 103.807	ATOM	1716	CB GLU	221	34.140		
ATOM 1719 OEL GLU 221 34.946 36.771 109.530 1.00 20.00 ATOM: 1720 OE2 GLU 221 32.928 37.691 109.343 1.00 20.00 ATOM: 1721 C GLU 221 36.399 31.392 109.271 1.00 20.00 ATOM 1722 O GLU 221 36.399 31.393 11.00 20.00 ATOM 1723 N SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1723 N SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1726 OG SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1726 OG SER 222 36.398 31.242 113.453 1.00 20.00 ATOM 1727 C SER 222 36.398 31.242 113.453 1.00 20.00 ATOM 1728 O SER 222 36.642 28.664 111.741 1.00 20.00 ATOM 1728 O SER 222 36.642 28.664 111.741 1.00 20.00 ATOM 1728 O SER 222 36.642 28.664 111.741 1.00 20.00 ATOM 1728 O SER 223 33.949 27.813 111.994 1.00 20.00 ATOM 1730 CA ASP 223 33.4451 29.179 111.994 1.00 20.00 ATOM 1730 CA ASP 223 33.499 27.813 111.994 1.00 20.00 ATOM 1731 CB ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1733 ODI ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1733 ODI ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1735 C ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 C ASP 223 34.162 27.668 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1730 CB CYS 224 34.439 27.764 109.527 1.00 20.00 ATOM 1740 C CYS 224 35.353 25.951 108.255 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1745 C B LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1746 CB LEU 225 34.986 21.5875 109.018 1.00 20.00 ATOM 1747 C DI LEU 225 34.688 24.117 106.185 1.00 20.00 ATOM 1746 CB LEU 225 34.986 22.5875 109.018 1.00 20.00 ATOM 1747 C DI LEU 225 34.688 24.117 106.185 1.00 20.00 ATOM 1750 C CYS 224 35.353 25.951 108.297 1.00 20.00 ATOM 1750 C CYS 224 35.353 25.951 108.297 1.00 20.00 ATOM 1750 C CYS 227 37.699 27.551 103.012 1.00 20.00 ATOM 1750 C C CYS 227 37.699 27.551 103.012 1.00 20.00 ATOM 1750 C C CYS 227 37.699 27.551 103.012 1.00 20.00 C ATOM 1755 C C CYS 227 37.699 27.551 103.012 1.00 20.00 C	ATOM	1717	CG GLU	221			
ATOM		1718	CD GLU	221	33.694	36.692 109.420	
ATOM				221	34.946	36.771 109.530	1.00 20.00
ATOM					32.928	37.691 109.343	1.00 20.00
ATOM 1723 N SER 222 35.024 31.392 109.271 1.00 20.00 ATOM 1724 CA SER 222 36.091 30.965 111.970 1.00 20.00 ATOM 1725 CB SER 222 36.398 31.242 113.453 1.00 20.00 ATOM 1726 OS SER 222 36.398 31.242 113.453 1.00 20.00 ATOM 1727 C SER 222 35.754 29.507 111.851 1.00 20.00 ATOM 1728 O SER 222 35.754 29.507 111.951 1.00 20.00 ATOM 1729 N ASP 223 34.451 29.179 111.904 1.00 20.00 ATOM 1729 N ASP 223 34.451 29.179 111.904 1.00 20.00 ATOM 1730 CA ASP 223 33.949 27.831 111.941 1.00 20.00 ATOM 1731 CB ASP 223 32.362 28.062 113.802 1.00 20.00 ATOM 1731 CB ASP 223 32.362 28.062 113.802 1.00 20.00 ATOM 1733 ODI ASP 223 32.362 28.062 113.802 1.00 20.00 ATOM 1733 ODI ASP 223 31.247 27.918 114.391 1.00 20.00 ATOM 1733 ODI ASP 223 31.247 27.918 114.391 1.00 20.00 ATOM 1736 O ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1740 SG CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1740 CA CYS 224 34.498 24.12 29.696 107.044 1.00 20.00 ATOM 1744 CA LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1744 CA LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1747 CDI LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CDI LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1755 CG VAL 226 36.895 22.038 107.776 1.00 20.00 ATOM 1755 C CYS 224 34.689 22.552 106.727 1.00 20.00 ATOM 1755 C CYS 227 37.331 23.578 106.177 1.00 20.00 ATOM 1755 C CYS 224 34.984 24.12 29.696 107.044 1.00 20.00 ATOM 1746 CG LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1746 CG LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1755 C CYS 227 37.332 25.951 108.244 1.00 20.00 ATOM 1755 C CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1758 N CYS 227 37.389 25.435 104.173 1.00 20.00 ATOM 1758 N CYS 227 37.389 31.630 102.904 1.0					34.739	31.934 110.156	1.00 20.00
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ATOM 1732 CG ASP 223 32.362 28.062 113.802 1.00 20.00 ATOM 1733 OD1 ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1735 C ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1735 C ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.448 27.151 108.225 1.00 20.00 ATOM 1739 CB CYS 224 35.043 A8.088 107.159 1.00 20.00 ATOM 1740 SG CYS 224 35.043 A8.088 107.159 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.875 109.018 1.00 20.00 ATOM 1742 O CYS 224 36.366 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1745 CB LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1748 CG2 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1750 O LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1750 O LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1755 CG VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 N CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 N CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 N CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1756 CG VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 N CZ 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 CG ANG 228 33.667 30.939 31.630 102.904 1.00 20.00 ATOM 1756 CA ARG 228 35.667 30.067 99.520 10.020 00.00 ATOM 1766 CB ARG 228 35.667 30.067 99.520 10.020 00.00 ATOM 1767 N CG ARG 228 35.667 30.949 99.540 10.020 00.00 ATOM 1766 CB ARG 228 35.667 30.949 99.540 1.00 20.00 ATOM 1767 N CG ARG 228 35.667 30.994 99.54	ATOM	1730	CA ASP	223			
ATOM 1733 OD1 ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1734 OD2 ASP 223 31.247 27.918 114.371 1.00 20.00 ATOM 1735 C ASP 223 34.130 25.839 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.130 25.839 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1739 CB CYS 224 34.348 27.151 108.225 1.00 20.00 ATOM 1740 SG CYS 224 34.212 29.696 107.044 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1744 CA LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1745 CB LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 24.117 106.185 1.00 20.00 ATOM 1749 C LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 C AVAL 226 36.443 25.009 105.246 1.00 20.00 ATOM 1750 C AVAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1757 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1757 C VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1756 C C CYS 227 38.489 29.866 103.007 1.00 20.00 ATOM 1757 C VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1756 C B CYS 227 37.589 29.966 103.045 1.00 20.00 ATOM 1757 C VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1756 C B CYS 227 37.589 29.966 103.045 1.00 20.00 ATOM 1756 C B CYS 227 37.589 29.966 103.045 1.00 20.00 ATOM 1756 C B ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 C B ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 C B ARG 228 36.044 29.869 100.888 1.00 20.00	ATOM	1731	CB ASP	223	32.461		
ATOM 1733 OD1 ASP 223 33.407 28.447 114.393 1.00 20.00 ATOM 1734 OD2 ASP 223 31.247 27.918 114.371 1.00 20.00 ATOM 1736 O ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1739 CB CYS 224 34.448 27.151 108.225 1.00 20.00 ATOM 1740 SG CYS 224 35.563 28.088 107.159 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1741 C CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1742 O CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 35.802 23.766 107.222 1.00 20.00 ATOM 1744 CA LEU 225 35.802 23.766 107.222 1.00 20.00 ATOM 1744 CA LEU 225 35.802 23.766 107.222 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1750 O LEU 225 37.293 25.435 104.173 1.00 20.00 ATOM 1750 C LEU 225 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CA VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1755 CA CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1756 C C CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1757 C ARC 227 37.669 27.551 103.012 1.00 20.00 ATOM 1756 C C CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1756 C A CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1756 C A CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1763 O CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1756 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1756 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1766 CB ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 33.0044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 33.0078 30.924 95.439 1.00 20.00 ATOM 1766 CB ARG 228 33.055 31.975 96.161 1.00 20.00	ATOM	1732	CG ASP	223	32.362	28.062 113.802	
ATOM 1734 OD2 ASP 223 31.247 27.918 114.371 1.00 20.00 ATOM 1735 C ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.130 25.839 110.665 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.448 27.151 108.225 1.00 20.00 ATOM 1740 SG CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.366 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1744 CA LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1745 CB LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1748 CD2 LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1751 N VAL 226 36.828 24.117 106.185 1.00 20.00 ATOM 1752 CA VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1756 C VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1757 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1750 C B CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1750 C B CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1750 C B CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1750 C B CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1756 C C CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1760 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1760 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1760 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1760 CB ARG 228 34.051 31.311 97.874 1.00 20.00 ATOM 1760 NA ARG 228 33.058 59.094 95.439 1.00 20.00 ATOM 1760 NA ARG 228 33.058 59.094 95.439 1.00 20.00 ATOM 1760 NA ARG 228 33.058 30.924 95.439 1.00 20.00 ATOM 1760 NA ARG 228 33.058 30.924 95.439 1.00 20.00			OD1 ASP	223	33.407	28.447 114.393	
ATOM 1735 C ASP 223 34.162 27.068 110.665 1.00 20.00 ATOM 1736 O ASP 223 34.130 25.839 110.685 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1739 CB CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1739 CB CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1740 SG CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.366 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1745 CB LEU 225 34.986 22.552 106.727 1.00 20.00 ATOM 1746 CG LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1747 CD1 LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1748 CD2 LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1750 C LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1755 CA VAL 226 36.443 25.009 105.246 1.00 20.00 ATOM 1755 CG2 VAL 226 37.158 24.558 102.967 1.00 20.00 ATOM 1755 CG2 VAL 226 37.158 24.558 102.967 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1756 CB CYS 227 37.333 28.990 102.701 1.00 20.00 ATOM 1756 CB CYS 227 37.333 28.990 102.701 1.00 20.00 ATOM 1756 CB CYS 227 37.584 28.291 100.2701 1.00 20.00 ATOM 1756 CB CYS 227 37.584 28.291 100.2701 1.00 20.00 ATOM 1766 CB CYS 227 37.584 28.291 100.2701 1.00 20.00 ATOM 1766 CB ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 32.565 31.975 96.161 1.0				223	31.247	27.918 114.371	1.00 20.00
ATOM 1736 O ASP 223 34.130 25.839 110.685 1.00 20.00 ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 34.448 27.151 108.225 1.00 20.00 ATOM 1740 SG CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1740 SG CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1744 CA LEU 225 35.802 23.766 107.222 1.00 20.00 ATOM 1745 CB LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1746 CG LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1748 CD2 LEU 225 33.262 20.781 107.283 1.00 20.00 ATOM 1749 C LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1750 O LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1750 O LEU 225 37.931 23.578 106.177 1.00 20.00 ATOM 1751 N VAL 226 36.443 25.009 105.246 1.00 20.00 ATOM 1752 CA VAL 226 37.293 25.455 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.293 25.455 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CA CYS 227 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CA CYS 227 37.438 23.100 103.414 1.00 20.00 ATOM 1756 CB CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 CB CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 CB ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 32.565 31.975 96.161 1.00 20.00				223	34.162	27.068 110.665	
ATOM 1737 N CYS 224 34.339 27.764 109.527 1.00 20.00 ATOM 1738 CA CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1740 SG CYS 224 35.043 28.088 107.159 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.3606 25.875 109.018 1.00 20.00 ATOM 1742 O CYS 224 36.3606 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1744 CA LEU 225 35.802 23.766 107.222 1.00 20.00 ATOM 1745 CB LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1748 CD2 LEU 225 34.668 21.843 109.145 1.00 20.00 ATOM 1749 C LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1749 C LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1750 O LEU 225 36.443 25.009 105.246 1.00 20.00 ATOM 1751 N VAL 226 36.443 25.009 105.246 1.00 20.00 ATOM 1752 CA VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1755 N CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1755 N CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1755 N CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 C CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 C CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 C CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1756 C CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1766 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 32.5665 31.975 96.161 1.00 20.00 ATOM 1767 CC ARG 228 32.5665 31.975 96.161 1.00 20.00 ATOM 1767					34.130	25.839 110.685	1.00 20.00
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ATOM 1740 SG CYS 224 34.212 29.696 107.044 1.00 20.00 ATOM 1741 C CYS 224 35.353 25.951 108.244 1.00 20.00 ATOM 1742 O CYS 224 36.306 25.875 109.018 1.00 20.00 ATOM 1743 N LEU 225 34.984 24.921 107.449 1.00 20.00 ATOM 1745 CB LEU 225 34.996 22.552 106.727 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1746 CG LEU 225 33.995 22.038 107.776 1.00 20.00 ATOM 1747 CD1 LEU 225 33.262 20.781 107.283 1.00 20.00 ATOM 1748 CD2 LEU 225 33.262 20.781 107.283 1.00 20.00 ATOM 1749 C LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1750 O LEU 225 36.828 24.117 106.185 1.00 20.00 ATOM 1751 N VAL 226 36.828 24.117 106.185 1.00 20.00 ATOM 1752 CA VAL 226 36.443 25.009 105.246 1.00 20.00 ATOM 1753 CB VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1755 CG2 VAL 226 38.085 25.028 101.837 1.00 20.00 ATOM 1756 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 N VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1760 CB CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1761 SG CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1761 SG CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1760 CB CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1761 SG CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1765 CA ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.565 31.975 96.161 1.00 20.00 ATOM 1768 CD ARG 228 32.728 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.728 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1760 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1760 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1760 NE ARG 228 32.565 31.975 96.161 1.00 20.							1.00 20.00
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ATOM 1752 CA VAL 226 37.293 25.435 104.173 1.00 20.00 ATOM 1753 CB VAL 226 37.158 24.548 102.967 1.00 20.00 ATOM 1755 CG2 VAL 226 38.085 25.028 101.837 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1756 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 O VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1760 CB CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1761 SG CYS 227 38.093 31.630 102.904 1.00 20.00 ATOM 1762 C CYS 227 37.019 29.003 101.239 1.00 20.00 ATOM 1763 O CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1764 N ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1765 CA ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1768 CD ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1769 NE ARG 228 32.768 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.768 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32			N VAL	226	36.443	25.009 105.246	
ATOM 1753 CB VAL 226 37.158 24.548 102.967 1.00 20.00 ATOM 1755 CG2 VAL 226 36.854 25.028 101.837 1.00 20.00 ATOM 1756 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 0 VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1760 CB CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1761 SG CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1762 C CYS 227 38.093 31.630 102.904 1.00 20.00 ATOM 1763 0 CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1764 N ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1767 CG ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1768 CD ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.07				226	37.293	25.435 104.173	
ATOM 1754 CG1 VAL 226 38.085 25.028 101.837 1.00 20.00 ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1757 O VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1760 CB CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1761 SG CYS 227 38.093 31.630 102.701 1.00 20.00 ATOM 1762 C CYS 227 37.019 29.003 101.239 1.00 20.00 ATOM 1763 O CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1766 CB ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1768 CD ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1768 CD ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.					37.158	24.548 102.967	1.00 20.00
ATOM 1755 CG2 VAL 226 37.438 23.100 103.414 1.00 20.00 ATOM 1756 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 O VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1759 CA CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1759 CA CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1760 CB CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1761 SG CYS 227 38.093 31.630 102.904 1.00 20.00 ATOM 1762 C CYS 227 37.019 29.003 101.239 1.00 20.00 ATOM 1763 O CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1764 N ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1765 CA ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1768 CD ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1768 CD ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.07					38.085	25.028 101.837	1.00 20.00
ATOM 1756 C VAL 226 36.854 26.821 103.807 1.00 20.00 ATOM 1757 0 VAL 226 35.787 27.264 104.225 1.00 20.00 ATOM 1758 N CYS 227 37.669 27.551 103.012 1.00 20.00 ATOM 1760 CB CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1761 SG CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1762 C CYS 227 38.093 31.630 102.904 1.00 20.00 ATOM 1763 0 CYS 227 37.019 29.003 101.239 1.00 20.00 ATOM 1764 N ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1765 CA ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1768 CD ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1768 CD ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.578 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1769 NE ARG 228 32.578 30.924 95.439 1.00 20.00 ATOM 1769 NE ARG 228 32.578 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00							
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ATOM 1759 CA CYS 227 37.333 28.910 102.701 1.00 20.00 ATOM 1761 SG CYS 227 38.489 29.866 103.045 1.00 20.00 ATOM 1762 C CYS 227 37.019 29.003 10.239 1.00 20.00 ATOM 1763 O CYS 227 37.584 28.279 100.420 1.00 20.00 ATOM 1764 N ARG 228 36.044 29.869 100.888 1.00 20.00 ATOM 1765 CA ARG 228 35.667 30.067 99.520 1.00 20.00 ATOM 1766 CB ARG 228 34.418 30.945 99.346 1.00 20.00 ATOM 1767 CG ARG 228 34.051 31.131 97.874 1.00 20.00 ATOM 1768 CD ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.728 31.856 97.637 1.00 20.00 ATOM 1769 NE ARG 228 32.565 31.975 96.161 1.00 20.00 ATOM 1760 NE ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00 ATOM 1770 CZ ARG 228 32.078 30.924 95.439 1.00 20.00							
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ATOM	1772	NH2	ARG	228	31	. 935	31.036	94.086	1.00 20.00
ATOM	1773	С	ARG	228	36	.790	30.753	98.823	1.00 20.00
ATOM	1774	0	ARG	228	37	.171	30.389	97.710	1.00 20.00
ATOM	1775	N	LYS	229	37	.366	31.763	99.496	1.00 20.00
MOTA	1776	CA	LYS	229	38	.413	32.542	98.910	1.00 20.00
ATOM	1777	CB	LYS	229	38	.191	34.057	99.044	1.00 20.00
MOTA	1778	CG	LYS	229	37	.042	34.561	98.171	1.00 20.00
ATCM	1779	CD	LYS	229	37	.253	34.283	96.680	1.00 20.00
MOTA	1780	CE	LYS	229	36	.105	34.761	95.790	1.00 20.00
ATOM:	1781	NZ	LYS	229	36	.184	36.227	95.603	1.00 20.00
ATOM	1782	С	LYS	229		.687	32.194	99.601	1.00 20.00
ATOM:	1783	0	LYS	229		.193	31.078	99.477	1.00 20.00
ATOM	1784	ν.	PHE	230		.258	33.164	100.336	1.00 20.00
ATOM	1785	CA	PHE	230		.529	32.907	100.942	1.00 20.00
MOTA	1786	CE	PHE	230		.569	33.977	100.583	1.00 20.00
MOTA	1787	CG	PHE	230		.657	33.954	99.093 98.450	1.00 20.00
ATOM	1788	CD1	PHE	230		.536	33.115 34.761	98.336	1.00 20.00
ATOM	1789	CD2	PHE	230		.839 .610	33.092	97.077	1.00 20.00
ATOM	1790	CE1	PHE	230		.908	34.743	96.963	1.00 20.00
ATOM	1791		PHE	230 230		.793	33.906	96.330	1.00 20.00
MOTA	1792	CZ	PHE	230		.368	32.874	102.427	1.00 20.00
ATOM ATOM	1793 1794	C 0	PHE	230		.583	33.627	102.998	1.00 20.00
ATOM	1795	N	ARG	231		.120	31.974	103.091	1.00 20.00
ATOM	1796	CA	ARG	231		.039	31.849	104.516	1.00 20.00
ATOM	1797	CB	ARG	231		.237	30.409	105.019	1.00 20.00
ATOM	1798	CG	ARG	231		.072	29.470		1.00 20.00
ATOM	1799	CD	ARG	231		.210	29.136	105.921	1.00 20.00
ATOM	1800	NE	ARG	231		.072	28.375	106.870	1.00 20.00
ATOM	1801	CZ	ARG	231	4 (.647	28.124	108.142	1.00 20.00
ATOM	1802		ARG	231	39	9.422	28.566	108.553	1.00 20.00
MOTA	1803	NH2	ARG	231	4 1	.447	27.430	109.002	1.00 20.00
ATOM	1804	С	ARG	231	43	3.141	32.670		1.00 20.00
ATOM	1805	0	ARG	231		.256	32.668		1.00 20.00
MOTA	1806	Ν	ASP	232		2.846	33.433		1.00 20.00
MOTA	1807	CA	ASP	232		3.888	34.220		1.00 20.00
MOTA	1808	CB	ASP	232		3.974	35.641		1.00 20.00
MOTA	1809	CG	ASP	232		5.245	36.315		1.00 20.00
ATOM	1810	OD1		232		5.995	35.669		1.00 20.00
MOTA	1811	OD2		232		5.485	37.488		1.00 20.00
ATOM	1812	C	ASP	232		3.611	34.358 34.684		1.00 20.00
ATOM	1813	0	ASP	232		2.499 4.636	34.109		1.00 20.00
MOTA	1814	N	GLU GLU	233 233		4.517	34.286		1.00 20.00
MOTA	1815	CA CB	GLU	233		4.360	35.763		1.00 20.00
ATOM ATOM	1816 1817	CG	GLU	233		5.572	36.628		1.00 20.00
ATOM	1818	CD	GLU	233		5.258		110.930	1.00 20.00
ATOM	1819	OE1		233		5.031	38.275		1.00 20.00
ATOM	1820	OE 2		233		5.235	38.947	110.040	1.00 20.00
ATOM	1821	C	GLU	233	4	3.320	33.557	110.969	1.00 20.00
MOTA	1822	0	GLU	233	4	2.500	34.129		1.00 20.00
ATOM	1823	N	ALA	234	4	3.190		5 110.622	1.00 20.00
MOTA	1824	CA	ALA	234		2.116	31.473		1.00 20.00
MOTA	1825	CB	ALA	234		2.111	31.424		1.00 20.00
ATOM	1826	С	ALA	234		0.796		110.689	1.00 20.00
ATOM	1827	0	ALA	234		9.753		3 111.143	1.00 20.00
ATOM	1828	N	THR	235		0.781		5 109.769	1.00 20.00
MOTA	1829		THR	235		9.503		2 109.337 1 109.648	1.00 20.00
MOTA	1830	CB	THR	235		9.258		3 108.951	1.00 20.00
MOTA	1831		1 THR	235		0.180 9.406		0 111.163	1.00 20.00
ATOM	1832		2 THR	235 235		9.416		9 107.855	1.00 20.00
ATOM	1833	0	THR	235		0.417		4 107.146	1.00 20.00
ATOM ATOM	1834 1835		THR CYS	236		8.192		8 107.349	1.00 20.00
ATOM	1836		CYS	236		8.001		2 105.942	1.00 20.00
ATOM	1837		CYS	236		6.800		2 105.650	1.00 20.00
ATOM	1838			236		6.337		0 103.901	1.00 20.00
ATOM	1839		CYS	236		37.757		3 105.357	1.00 20.00
MOTA	1840		CYS	236		6.743		6 105.644	1.00 20.00
ATOM	1841		LYS	237		8.699		1 104.515	1.00 20.00
MOTA	1842			237	3	38.564		2 103.976	
ATOM	1843			237		39.768		0 104.271	1.00 20.00
ATOM	1844	CG		237		39.902		5 105.768	
ATOM	1845			237		38.629		1 106.374	
ATOM	1846			237		38.625		9 107.902	
ATOM	1847			237		37.326		7 108.387	
ATOM	1848	С	LYS	237		38.355	33.3/	7 102.495	1.00 20.00

TOW.	1849	0 1	LYS	237	38.846	35.079 101	.814	1.00 20.00
ATOM ATOM	1850		45P	238	37.555		.986	1.00 20.00
ATOM	1851		ASP	238	37.223		.596	1.00 20.00
ATO::	1852		ASP	238	36.171		.390	1.00 20.00
ATOM	1953		ASP	238	35.744	38.227 98	.928	1.00 20.00
ATOM	1854		ASP	238	36.331		.109	1.00 20.00
ATON:	1855		ASP	238	34.818	39.023 98	.613	1.00 20.00
ATON:	1856		ASP	238	38.458	37.477 99	.851	1.00 20.00
ATOM	1857		ASP	238	38.737	36.982 98	.760	1.00 20.00
HOTA	1858	3. 3	THR	239	39.224		.431	1.00 20.00
ATO::	1859	CA S	rhr	239	40.448		.832	1.00 20.00
MOTA	1860	CB :	THR	239	40.329		.097	1.00 20.00
MOTA	1861		THR	239	39.949		.993	1.00 20.00
MOTA	1862		THR	239	39.277		.987	1.00 20.00
MOTA	1863		THR	239	41.365		.978	1.00 20.00
ATOM	1864		THR	239	40.916		.116	1.00 20.00
ATOM	1865		CYS	240	42.683 43.501		.887	1.00 20.00
ATOM.	1866		CYS	240 240	44.812		.839	1.00 20.00
MOTA	1867 1868		CYS CYS	240	44.408		.902	1.00 20.00
MOTA	1869		CYS	240	43.713		1.138	1.00 20.00
ATOM ATOM	1870		CYS	240	43.757		.237	1.00 20.00
ATOM	1871		PRO	241	43.721		3.407	1.00 60.00
ATOM	1872		PRO	241	44.007		3.837	1.00 60.00
ATOM	1873		PRO	241	42,818		.319	1.00 60.00
ATOM	1874		PRO	241	43.277		5.167	1.00 60.00
ATOM	1875		PRO	241	42.933	41.151 105	5.631	1.00 60.00
ATOM	1876	С	PRO	241	45.485	42.554 103	3.951	1.00 60.00
ATOM	1877	C	PRO	241	46.175		1.209	1.00 60.00
ATOM	1878	N	PRO	242	45.980		3.769	1.00 60.00
MOTA	1879	CA	PRO	242	47.389		3.902	1.00 60.00
MOTA	1880	CD	PRO	242	45,202		1.007	1.00 60.00
MOTA	1881	CB	PRO	242	47.555		3.767	1.00 60.00
ATOM	1882	CG	PRO	242	46.240		1.359	1.00 60.00 1.00 60.00
ATOM	1883	С	PRO	242	47.770 48.885		5.276 5.471	1.00 60.00
ATOM	1884	0	PRO	242 243	46.850		6.240	1.00 60.00
ATOM	1885 1886	N CA	LEU	243	47.089		7.608	1.00 60.00
ATOM ATOM	1887	CB	LEU	243	47.709		8.438	1.00 60.00
MOTA	1888	CG	LEU	243	49.158		8.040	1.00 60.00
ATOM	1889		LEU	243	49.746	45.960 10	8.883	1.00 60.00
ATOM	1890		LEU	243	50.013	43.547 10	8.079	1.00 60.00
ATOM	1891	С	LEU	243	45.751		8.189	1.00 60.00
MOTA	1892	0	LEU	243	44.871		7.504	1.00 60.00
MOTA	1893	И	MET	244	45.582		9.486	1.00 60.00
ATOM	1894	CA	MET	244	44.310		0.108	1.00 60.00
ATOM	1895	CB	MET	244	44.244		1.544 1.623	1.00 60.00
ATOM	1896	CG	MET	244 244	44.404 46.031		1.113	1.00 60.00
MOTA	1897	SD CE	MET MET	244	45.606		1.417	1.00 60.00
ATOM ATOM	1898 1899	C	MET	244	43.341		9.277	1.00 60.00
ATOM	1900	0	MET	244	43.618		8.861	1.00 60.00
ATOM	1901	Й	LEU	245	42.178		8.983	1.00 60.00
ATOM	1902	CA	LEU	245	41.275	44.062 10	8.114	1.00 60.00
ATOM	1903	CB	LEU	245	40.482		7.183	1.00 60.00
ATOM	1904	CG	LEU	245	39.510	43.877 10		1.00 60.00
ATOM	1905		LEU	245	40.262	44.818 10		1.00 60.00
ATOM	1906		LEU	245	38.586	42.898 10		1.00 60.00
ATOM	1907	С	LEU	245	40.300	44.820 10		1.00 60.00
ATOM	1908	0	LEU	245	39.603 40.255	44.260 10		1.00 60.00
ATOM	1909	N	TYR	246 246	39.355	47.021 10		1.00 60.00
MOTA MOTA	1910 1911	CA CB	TYR TYR	246	39.974	47.732 11		1.00 60.00
ATOM	1912	CG	TYR	246	40.210	46.669 11		1.00 60.00
ATOM	1913	CD1		246	39.183	46.232 11		1.00 60.00
ATOM	1914	CD2		246	41.454	46.100 11		1.00 60.00
ATOM	1915	CE1		246	39.392	45.248 11		1.00 60.00
ATOM	1916			246	41.669	45.115 11		1.00 60.00
ATOM	1917	CZ	TYR	246	40.638	44.686 11		1.00 60.00
MOTA	1918		TYR	246	40.858	43.675 13		1.00 60.00
ATOM	1919		TYR	246	38.956		08.378	1.00 60.00
ATOM	1920		TYR	246	39.319		07.209	1.00 60.00
MOTA	1921		ASN	247	38.163		08.784	1.00 60.00
ATOM	1922		ASN NSA	247 247	37.735 36.289	50.489 10	07.830 18.073	1.00 60.00
ATOM ATOM	1923 1924		ASN	247	35.918	51.523 10		1.00 60.00
ATOM	1925		ASN	247	36.117	52.719 1		1.00 60.00

ATOM	1926	ND2		247	35.367		105.871	1.00 60.00	
ATOM	1927		ASN ASN	247 247	38.635 38.717		107.946 108.992	1.00 60.00	
ATOM ATOM	1928 1929		PRO	248	39.339		106.887	1.00 60.00	
ATOM	1930	CA	PRO	248	40.192		106.911	1.00 60.00	
MOTA	1931	CD	PRO	248	39.911		106.084	1.00 60.00	
ATOM	1932	CB	PRO	248 248	41.218 41.306		105.801 105.667	1.00 60.00	
ATOM ATOM	1933 1934	CG C	PRO PRO	248	39.351		106.711	1.00 60.00	
ATOM	1935	0	PRO	248	38.223	53.733	106.242	1.00 60.00	
MOTA	1936	N	THR	249	39.871	55.061	107.053	1.00 60.00	
ATOM	1937 1938	CA CB	THR THR	249 249	39.086 39.776	56.239 57.502	106.847	1.00 60.00	
ATOM ATOM	1939	OG1	THR	249	38.891	58.607	107.183	1.00 60.00	
ATOM	1940	CG2	THR	249	41.042	57.740	106.455	1.00 60.00	
MOTA	1941	C	THR	249	38.823	56.315	105.381	1.00 60.00	
ATOM ATOM	1942 1943	и О	THR THR	249 250	37.710 39.852	56.015	104.568	1.00 60.00	
ATOM	1944	CA	THR	250	39.673	56.034	103.151	1.00 60.00	
MOTA	1945	CB	THR	250	40.961	56.078	102.379	1.00 60.00	
ATOM	1946	OG1	THR	250	40.698 41.708	56.296 54.748	101.001	1.00 60.00	
ATOM ATOM	1947 1948	CG2 C	THR THR	250 250	38.962	54.774	102.789	1.00 60.00	
ATOM	1949	ŏ	THR	250	38.895	53.836	103.582	1.00 60.00	
ATOM	1950	N	TYR	251	38.386	54.732	101.575	1.00 60.00	
MOTA	1951	CA	TYR	251	37.687	53.553 53.729	101.168 99.916	1.00 60.00	
ATOM ATOM	1952 1953	CB CG	TYR TYR	251 251	36.806 35.559	54.427	100.344	1.00 60.00	
ATOM	1954	CD1		251	35.513	55.794	100.493	1.00 60.00	
ATOM	1955	CD2	TYR	251	34.422	53.694	100.598	1.00 60.00	
ATOM	1956	CE1	TYR	251	34.351	56.416	100.892	1.00 60.00	
MOTA MOTA	1957 1958	CE2 CZ	TYR TYR	251 251	33.260 33.222	54.308 55.673	100.336	1.00 60.00	
ATOM	1959	OH	TYR	251	32.028	56.303	101.556	1.00 60.00	
ATOM	1960	С	TYR	251	38.680	52.474	100.905	1.00 60.00	
ATOM	1961	0	TYR GLN	251 252	39.886 38.166	52.711 51.240	100.849	1.00 60.00	
ATOM ATOM	1962 1963	N CA	GLN	252	38.975	50.082	100.535	1.00 60.00	
ATOM	1964	СВ	GLN	252	38.148	48.790		1.00 60.00	
MOTA	1965	CG	GLN	252	37.505	48.392	101.772	1.00 60.00	
ATOM	1966 1967	CD OE1	GLN GLN	252 252	36.708 37.174	47.119 46.185		1.00 60.00	
ATOM ATOM	1968	NE2		252	35.460	47.086		1.00 60.00	
MOTA	1969	С	GLN	252	39.689	50.261		1.00 60.00	
MOTA	1970	0	GLN	252 253	40.852 39.012	49.882 50.852		1.00 60.00	
atom Atom	1971 1972	N CA	MET MET	253	39.666	51.035		1.00 60.00	
ATOM	1973	CB	MET	253	38.803	51.762	95.932	1.00 60.00	
MOTA	1974	CG	MET	253	37.538	50.994		1.00 60.00	
ATOM	1975	SD CE	MET MET	253 253	36.238 35.821	50.995 52.749		1.00 60.00	
ATOM ATOM	1976 1977	C	MET	253	40.861	51.886		1.00 60.00	C
ATOM	1978	0	MET	253	40.743	53.069		1.00 60.00	
MOTA	1979	N	ASP	254	42.057	51.277 51.991		1.00 60.00	
MOTA MOTA	1980 1981	CA CB	ASP ASP	254 254	43.266 44.085	51.384		1.00 60.00	
ATOM	1982	CG	ASP	254	43.316	51.602	99.864	1.00 60.0	
ATOM	1983		L ASP	254	42.585	52.625		1.00 60.00	
ATOM	1984		2 ASP	254 254	43.444 44.116	50.747		1.00 60.0	
ATOM ATOM	1985 1986	CO	ASP ASP	254	43.918	51.045		1.00 60.0	
ATOM	1987	N	VAL	255	45,089	52.829	96.084	1.00 60.0	
ATOM	1988	CA	VAL	255	45.953	52.809		1.00 60.0	
MOTA	1989 1990		VAL VAL	255 255	46.998 47.930	53.885 53.705		1.00 60.0	
ATOM ATOM	1991		2 VAL	255	46.297	55.252		1.00 60.0	
ATOM	1992		VAL	255	46.667	51.50		1.00 60.0	
MOTA	1993		VAL	255	46.804	50.822		1.00 60.0	
MOTA ATOM	1994 1995		ASN ASN	256 256	47.126 47.840	51.119 49.89		1.00 60.0	
ATOM	1996		ASN	256	48.691	49.83	97.632	1.00 60.0	0
ATOM	1997	CG	ASN	256	47.769			1.00 60.0	
MOTA	1998			256 256	47.369 47.426			1.00 60.0	
MOTA MOTA	1999 2000		2 ASN ASN	256 256	46.861			1.00 60.0	0
ATOM	2001		ASN	256	45.669	48.92	1 96.648	1.00 60.0	
ATOM	2002	N	PRO	257	47.406	47.62	3 96.086	1.00 60.0	U

Figure 6 (continued)

ATCM	2003	CA	PRO	257	46.650	46.404	96.101	1.00 60.00
ATOM:	2004	CD	PRO	257	48.448	47.591	95.072	1.00 60.00
ATOM:	2005		PRO	257	47.457	45.393	95.293	1.00 60.00
ATOM	2006		PRO	257	48.253	46.269	94.314	1.00 60.00
ATOM:	2007	C	PRO	257 257	46.453 46.812	46.004	97.521 98.406	1.00 60.00
ATOM	2008 2009	0	PRO GLU	258	45.895	44.800	97.748	1.00 60.00
ATOM ATOM	2010		GLU	258	45.609	44.329	99.069	1.00 60.00
ATOM	2011		GLU	258	45.214	42.842	99.071	1.00 60.00
ATOM	2012	CG	GLU	258	43.949	42.540	98.261	1.00 60.00
ATOM	2013	CD	GLU	258	42.761	43.181	99.963	1.00 60.00
ATOM.	2014		GLU	258	42.962	43.742	100.073	1.00 60.00
MOTA	2015		GLU	258	41.637	43.117	98.398	1.00 60.00 1.00 60.00
ATO!:	2016	c	GLU	258	46.878	44.453	99.847 100.970	1.00 60.00
MOTA	2017 2018	O Iv	GLU GLY	258 259	46.881 48.003	44.023	99.253	1.00 60.00
ATOM ATOM	2019	CA	GLY	259	49.261	44.185	99.918	1.00 60.00
ATOM	2020	C	GLY	259	49.596	42.908	100.603	1.00 60.00
MOTA	2021	0	GLY	259	50.761	42.640	100.895	1.00 60.00
ATOM	2022	l.	LYS	260	48.582	42.071	100.880	1.00 60.00
MOTA	2023	CA	LYS	260	48.905	40.825	101.498	1.00 60.00
MOTA	2024	CB	LYS	260	47.732	40.172	102.250	1.00 60.00
ATOM	2025	CG	LYS	260	48.120	38.889	102.989	1.00 60.00 1.00 60.00
ATOM	2026 2027	CD	LYS LYS	260 260	49.128 48.621	39.111 40.026	104.121	1.00 60.00
ATOM ATOM	2028	NS	LYS	260	47.632	39.310	106.074	1.00 60.00
ATOM	2029	C	LYS	260	49.315	39.934	100.381	1.00 60.00
ATOM	2030	Ö	LYS	260	49.010	40.209	99.221	1.00 60.00
ATOM	2031	N	TYR	261	50.046	38.847	100.684	1.00 20.00
MOTA	2032	CA	TYR	261	50.449	38.037	99.581	1.00 20.00
ATOM	2033	CB	TYR	261	51.947	37.694	99.596	1.00 20.00
ATOM	2034	CG	TYR	261	52.632	39.011	99.718 98.681	1.00 20.00
ATOM	2035		TYR	261 261	52.617 53.241	39.914 39.371	100.898	1.00 20.00
ATOM ATOM	2036 2037	CD2 CE1	TYR TYR	261	53.234	41.137	98.810	1.00 20.00
ATOM	2038	CE2		261	53.861	40.591	101.025	1.00 20.00
ATOM	2039	CZ	TYR	261	53.863	41.478	99.981	1.00 20.00
ATOM	2040	οн	TYR	261	54.500	42.729	100.118	1.00 20.00
MOTA	2041	С	TYR	261	49.663	36.775	99.661	1.00 20.00
ATOM	2042	0	TYR	261	49.593 49.030	36.140 36.386		1.00 20.00
MOTA	2043 2044	N CA	SER SER	262 262	48.241	35.193		1.00 20.00
ATOM ATOM	2045	CB	SER	262	47.000	35.258		1.00 20.00
ATOM	2046	OG	SER	262	47.396	35.388		1.00 20.00
ATOM	2047	C	SER	262	49.101	34.091	98.047	1.00 20.00
MOTA	2048	0	SER	262	49.756	34.222		1.00 20.00
ATOM	2049	N_	PHE	263	49.141	32.972		1.00 20.00
MOTA	2050	CΛ	PHE	263	49.945	31.874 31.651		1.00 20.00
ATOM	2051	CB CG	PHE PHE	263 263	51.182 51.934	30.486		1.00 20.00
ATOM ATOM	2052 2053	CD1		263	52.842	30.657		1.00 20.00
ATOM	2054	CD2		263	51.733	29.224		1.00 20.00
ATOM	2055	CE1		263	53.539	29.584		1.00 20.00
MOTA	2056	CE2	PHE	263	52.427	28.148		1.00 20.00
MOTA	2057	CZ	PHE	263	53.333	28.327		1.00 20.00
ATOM	2058	С	PHE	263	49.066 48.600	30.674 30.378		1.00 20.00
ATOM ATOM	2059 2060	O N	PHE GLY	263 264	48.807	29.940		1.00 20.00
ATOM	2061	CA	GLY	264	47.937	28.810		1.00 20.00
ATOM	2062	C	GLY	264	46.566	29.344		1.00 20.00
MOTA	2063	0	GLY	264	46.089	30.251		1.00 20.00
MOTA	2064	N	ALA	265	45.864	28.715		1.00 20.00
MOTA	2065	CA	ALA	265	44.568	29.095		1.00 20.00
ATOM	2066	CB	ALA	265	43.845 44.664	27.934 30.215		1.00 20.00
ATOM	2067	C	ALA ALA	265 265	43.738	31.012		1.00 20.00
ATOM ATOM	2068 2069	N	THR	266	45.779		101.130	1.00 20.00
ATOM	2070	CA	THR	266	45.922	31.197	7 102.231	1.00 20.00
ATOM	2071	CB	THR	266	46.519	30.528		1.00 20.00
ATOM	2072		THR	266	46.489	31.38		
ATOM	2073	CG		266	47.970		5 103.111 7 101 850	1.00 20.00
ATOM	2074	C	THR THR	266 266	46.836 47.360	32.31	7 101.850 0 100.738	
ATOM ATOM	2075 2076	O N	CYS	267	47.017		1 102.777	
ATOM	2077	CA	CYS	267	47.856		9 102.505	1.00 20.00
ATOM	2078		CYS	267	47.107	35.73	6 102.555	1.00 20.00
ATOM	2079		CYS	267	46.042	35.89	6 101.105	1.00 20.00

ATOM	2080	С	CYS	267	49.973	34.484	103.496	1.00 20.00
ATOM:	2081	0	CYS	267	48.868		104.616	1.00 20.00
ATO?	2082	N	VAL	268	50.090		103.072	1.00 20.00
ATOM	2083	CA	VAL	268	51.246		103.914	1.00 20.00
ATOM:	2084	CB	VAL	268	52.450		103.389 104.364	1.00 20.00 1.00 20.00
ATOM	2085	CG1	VAL	268	53.613 52.092		103.198	1.00 20.00
ATOM	2086	CG2	VAL VAL	268 268	51.585		103.190	1.00 20.00
ATO::	2087 2088	0	VAL	268	51.367		102.991	1.00 20.00
ATOM ATOM	2089	N	LYS	269	52.113		105.112	1.00 20.00
ATOM	2090	CA	LYS	269	52.451		105.266	1.00 20.00
ATOM	2091	CB	LYS	269	52.897		106.691	1.00 20.00
ATOM	2092	CG	LYS	269	53.252	40.415	106.830	1.00 20.00
ATOM	2093	CD	LYS	269	52.054	41.348	106.639	1.00 20.00
MOTA	2094	CE	LYS	269	52.436	42.829	106.565	1.00 20.00
ATOM	2095	NZ	LYS	269	52.973	43.147	105.223	1.00 20.00
ATOM	2096	С	LYS	269	53.570	38.919	104.343	1.00 20.00
MOTA:	2097	0	LYS	269	53.514	39.939	103.656	1.00 20.00
ATOM	2098	N	LYS	270	54.617	38.072	104.293	1.00 20.00
ATOM	2099	CA	LYS	270	55.742	38.377	103.458	1.00 20.00
ATOM	2100	CB	LYS	270	57.039 56.941	39.777	104.246	1.00 20.00
ATOM	2101	CG	LYS	270 270	56.596	41.126	104.611	1.00 20.00
ATOM	2102 2103	CD	LYS LYS	270	56.481	42.265	105.627	1.00 20.00
ATOM ATOM	2103	NZ	LYS	270	56.117	43.527	104.941	1.00 20.00
ATOM	2105	C	LYS	270	55.968	37.190	102.584	1.00 20.00
ATOM	2106	0	LYS	270	55.479	36.096		1.00 20.00
ATOM	2107	N	CYS	271	56.716	37.390	101.486	1.00 20.00
ATOM	2108	CA	CYS	271	56.954	36.331	100.554	1.00 20.00
ATOM	2109	CB	CYS	271	57.364	36.914	99.188	1.00 20.00
ATOM	2110	SG	CYS	271	57.362	35.766	97.784	1.00 20.00
ATOM	2111	С	CYS	271	58.038		101.128	1.00 20.00
ATOM	2112	0	CYS	271	59.021	35.964	101.675	1.00 20.00
MOTA	2113	N	PRO	272	57.859	34.179	101.035 101.566	1.00 20.00
ATOM	2114	CA	PRO	272	58.826 56.523	33.259 33.611	101.055	1.00 20.00
ATOM	2115	CD	PRO PRO	272 272	58.117	31.907	101.681	1.00 20.00
ATOM ATOM	2116 2117	CB CG	PRO	272	56.772	32.101	100.956	1.00 20.00
MOTA	2118	c	PRO	272	60.056	33.247	100.722	1.00 20.00
ATOM	2119	ō	PRO	272	60.007	33.707	99.583	1.00 20.00
ATOM	2120	N	ARG	273	61.171	32.732	101.270	1.00 20.00
ATOM	2121	CA	ARG	273	62.413	32.734	100.559	1.00 20.00
MOTA	2122	CB	ARG	273	63.550	32.037	101.326	1.00 20.00
ATOM	2123	CG	ARG	273	64.913	32.136		1.00 20.00
ATOM	2124	CD	ARG	273	66.068 65.997	31.639 30.152		1.00 20.00
ATOM	2125	NE	ARG ARG	273 273	66.655	29.407		1.00 20.00
ATOM	2126 2127	CZ NH1		273	67.376	30.026		1.00 20.00
ATOM ATOM	2128		ARG	273	66.595	28.044		1.00 20.00
ATOM	2129	C	ARG	273	62.202	32.027		1.00 20.00
ATOM	2130	ō	ARG	273	61.289	31.216		1.00 20.00
ATOM	2131	N	ASN	274	63.045	32.370	98.265	1.00 20.00
MOTA	2132	CA	ASN	274	63.051	31.844		1.00 20.00
ATOM	2133	CB	ASN	274	63.505	30.369		1.00 20.00
ATOM	2134	CG	ASN	274	62.563	29.415		1.00 20.00
MOTA	2135		LASN	274	62.809	29.031		1.00 20.00
ATOM	2136		2 ASN	274	61.448 61.712	29.024 32.030		1.00 20.00
ATOM	2137	C	ASN	274	61.322	31.258		1.00 20.00
MOTA	2138 2139	O N	ASN TYR	274 275	60.979	33.086		1.00 20.00
ATOM ATOM	2140	CA	TYR	275	59.712	33.421		1.00 20.00
ATOM	2141	CB	TYR	275	58.493	33.076		1.00 20.00
ATOM	2142	CG	TYR	275	58.268	31.602	96.996	1.00 20.00
ATOM	2143		1 TYR	275	57.473	31.010	96.042	1.00 20.00
ATOM	2144	CD	2 TYR	275	58.838	30.812		1.00 20.00
MOTA	2145			275	57.252	29.653		1.00 20.00
ATOM	2146			275	58.623	29.454		1.00 20.00
ATOM	2147		TYR	275	57.830 57.608	28.872		1.00 20.00
ATOM	2148		TYR	275	57.608 59.716	27.477 34.909		1.00 20.00
NOTA MOTA	2149		TYR TYR	275 275	60.361	35.62		1.00 20.00
ATOM ATOM	2150 2151		VAL	276	58.988	35.42		
MOTA	2151			276	58.972	36.83		
ATOM	2153			276	59.460	37.20		
ATOM	2154		1 VAL	276	60.930	36.76	93.186	
ATOM	2155		2 VAL	276	58.525	36.54		
MOTA	2156		VAL	276	57.553	37.30	2 94.770	1.00 20.00

ATOM	2157	С	VAL	276	56.6	18	36.514	94.641	1.00	20.00
MOTA	2158	!;	VAL	277	57.3	62	38.614	95.011	1.00	
ATOM	2159	CA	VAL	277	56.0		39.150	95.109		20.00
ATOM	2160	CB	VAL	277	55.8		40.173	96.197		20.00
MOTA	2161	CGl	VA۔	277	54.4		40.714	96.171		20.00
MOTA	2162	CG2	VAL	277	56.2		39.520	97.530		20.00
ATOM	2163	Ç	VAL	277	55.7		39.832	93.81° 93.423		20.00
ATOM	2164	0	VAL	277	56.4 54.6		40.754 39.389	93.421		20.00 20.00
ATOM	2165	N	THR THR	278 278	54.4		39.977	91.852		20.00
ATOM ATOM	2166 2167	CA CB	THR	278	54.5		39.022	90.709		20.00
ATOM	2168	OG1	THR	278	55.9		38.522	90.691		20.00
ATOM	2169	CG2	THE	278	54.2		39.766	89.396		20.00
ATOM	2170	C	THE	278	52.9		40.458	91.817		20.00
ATOM	2171	0	THR	278	52.1		39.887	92.457	1.00	20.00
ATOM	2172	N	ASP	279	52.7	777	41.551	91.063		20.00
MOTA	2173	CA	ASP	279	51.4	174	42.111	90.881		20.00
MOTA	2174	CB	ASP	279	50.5		41.179	90.103		20.00
ATOM	2175	CG	ASP	279	51.0		41.088	88.679		20.00
ATOM	2176	OD1		279	51.5		42.139	88.150	1.00	20.00
ATOM	2177		ASP	279	51.0		39.967	88.104		20.00
ATOM	2178	С	ASP	279	50.1		42.370	92.215 92.391		20.00
MOTA	2179	N O	ASP	279 280	49.0 51.		42.165 42.851	93.156		20.00
ATOM	2180 2181	CA	HIS HIS	280	51.		43.212	94.502		20.00
ATOM ATOM	2182	ND1	HIS	280	52.0		46.097	92.922		20.00
ATOM	2183		HIS	280	53.		47.211	94.183		20.00
ATOM	2184	CE1		280	53.		47.013	92.959		20.00
ATOM	2185	CD2		280	52.		46.369	94.976	1.00	20.00
ATOM	2186	CG	HIS	280	51.	869	45.679	94.219		20.00
MOTA	2187	CB	HIS	280	50.		44.657	94.624		20.00
MOTA	2188	C	HIS	280	50.		42.294	95.034		20.00
MOTA	2189	0	HIS	280	49.		42.521	94.835	1.00	
ATOM	2190	N	GLY	281	50.		41.240	95.766		20.00
MOTA	2191	CA	GLY	281	49. 49.		40.384 38.953	96.265 95.920		20.00
MOTA	2192 2193	C O	GLY GLY	281 281	49.		38.064	96.512	1.00	
ATOM ATOM	2193	И	SER	282	50.		38.648	94.949		20.00
ATOM	2195	CA	SER	282	51.		37.241	94.763		20.00
ATOM	2196	CB	SER	282	50.		36.754	93.340	1.00	20.00
ATOM	2197	OG	SER	282	50.	912	35.356	93.242	1.00	20.00
MOTA	2198	С	SER	282	52.	458	36.940	95.009		20.00
MOTA	2199	0	SER	282		346	37.526	94.393		20.00
MOTA	2200	N	CYS	283		727	36.015	95.947		20.00
ATOM	2201	CA	CYS	283		070	35.598	96.216		20.00
ATOM	2202	CB	CYS	283		318	35.411 34.499	97.723 98.162		20.00
ATOM	2203	SG	CYS CYS	283 283		825 204	34.499	95.544		20.00
ATOM ATOM	2204 2205	0	CYS	283		664	33.273	95.999		20.00
ATOM	2206	N	VAL	284		924	34.272	94.411		20.00
ATOM	2207	CA	VAL	284		105	33.072	93.660	1.00	20.00
ATOM	2208	CB	VAL	284	54.	524	33.155	92.280	1.00	20.00
ATOM	2209	CG1	VAL	284		139	34.372	91.571		20.00
ATOM	2210	CG2	VAL	284		771	31.820	91.558		20.00
ATOM	2211	С	VAL	284		574	32.850	93.542		20.00
ATOM	2212	0	VAL	284		366	33.781	93.672		20.00
MOTA	2213	N	ARG	285		977	31.587	93.311 93.249		20.00
ATOM	2214	CA	ARG	285 285		.372 .665	29.774	93.249		20.00
ATOM ATOM	2215 2216	CB CG	ARG ARG	285		167	29.484	92.987		20.00
ATOM	2217	CD	ARG	285		519	28.046	92.605		20.00
ATOM	2218	NE	ARG	285		.007	27.152	93.680		20.00
ATOM	2219	CZ	ARG	285		487	25.879	93.789	1.00	20.00
ATOM	2220		L ARG	285	61.	467	25.446	92.942	1.00	20.00
ATOM	2221	NH	2 ARG	285	59.	. 989	25.040	94.743		20.00
MOTA	2222	С	ARG	285		. 996	31.986	92.101	_	20.00
ATOM	2223	0	ARG	285		.115	32.481	92.219		20.00
MOTA	2224	N	ALA	286		.299	32.062	90.951		20.00
ATOM	2225	CA	ALA	286		.919	32.693	89.823		20.00
ATOM	2226	СВ	ALA	286 286		.147	31.737 33.793	88.641 89.334		20.00
ATOM	2227 2228	0	ALA ALA	286 286		.823	33.767	89.497		20.00
ATOM ATOM	2229	N	CYS	287		.663	34.801	88.699		20.00
ATOM	2230	CA	CYS	287		.932	35.932	88.223		20.00
ATOM	2231	CB	CYS	287		.821	37.148	88.001		20.00
ATOM	2232	SG	CYS	287		.371	37.729	89.624		20.00
MOTA	2233	С	CYS	287	57	.220	35.562	86.973	1.00	20.00

ATOM	2234	0	CYS	287	57.434	34.486	86.416	1.00 20.00
ATO:	2235	N	GLY	288	56.313	36.450	86.526	1.00 20.00
ATO:	2236	CA	GLY	288	55.567	36.180	85.339	1.00 20.00
ATOM	2237	C	GLY	288	56.571	36.093	84.235	1.00 20.00
ATO:	2238	0	GLY	288	57.707	36.543	84.371	1.00 20.00
ATO:	2239	И	ALA	289	56.147	35.526	83.091	1.00 20.00
ATO:	2240	CA	ALA	289	57.019	35.255	81.986	1.00 20.00
	2241	CB	ALA	289	56.254	34.835	80.719	1.00 20.00
ATOM		С	ALA	289	57.856	36.445	81.630	1.00 20.00
ATOM	2242				59.054	36.465	81.896	1.00 20.00
ATO:	2243	0	ALA	289				1.00 20.00
ATCM:	2244	N	ASP	290	57.232	37.480 38.634	81.038	
ATOM	2245	CA	ASP	290	57.915			1.00 20.00
ATOM	2246	CB	ASP	290	56.966	39.629	79.835	1.00 20.00
ATOM	2247	CG	ASP	290	56.517	39.010	78.519	1.00 20.00
ATOM:	2249	ODI		290	57.304	38.210	77.945	1.00 20.00
ATCM	2249	OD2	ASP	290	55.383	39.325	78.071	1.00 20.00
MOTA	2250	С	ASP	290	58.629	39.368	81.613	1.00 20.00
ATOM:	2251	0	ASP	290	59.445	40.242	81.327	1.00 20.00
MOTA	2252	N	SER	291	58.343	39.063	82.892	1.00 20.00
ATOM:	2253	CA	SER	291	58.974	39.823	83.937	1.00 20.00
MOTA	2254	CB	SER	291	58.083	39.996	85.177	1.00 20.00
ATOM	2255	OG	SER	291	57.857	38.735	85.790	1.00 20.00
ATOM	2256	С	SER	291	60.230	39.147	84.393	1.00 20.00
MOTA	2257	0	SER	291	60.313	37.920	84.434	1.00 20.00
ATOM:	2258	N	TYR	292	61.260	39.953	84.740	1.00 20.00
ATOM:	2259	CA	TYR	292	62.483	39.388	85.236	1.00 20.00
ATOM	2260	СВ	TYR	292	63.702	39.590	84.319	1.00 20.00
ATOM	2261	CG	TYR	292	64.847	38.888	84.968	1.00 20.00
ATOM	2262	CD1	TYR	292	64.939	37.514	84.919	1.00 20.00
ATOM	2263	CD2	TYR	292	65.832	39.596	85.616	1.00 20.00
ATOM	2264	CE1	TYR	292	65.991	36.857	85.512	1.00 20.00
ATOM	2265	CE2	TYR	292	66.887	38.945	86.210	1.00 20.00
ATOM	2266	CZ	TYR	292	66.966	37.574	86.160	1.00 20.00
MOTA	2267	OH	TYR	292	68.047	36.903	86.772	1.00 20.00
ATOM	2268	C	TYR	292	62.771	40.031	86.558	1.00 20.00
		0	TYR	292	62.343	41.153	86.827	1.00 20.00
MOTA	2269 2270	N	GLU	293	63.506	39.310	87.424	1.00 20.00
ATOM			GLU	293	63.817	39.765	88.747	1.00 20.00
ATOM	2271	CA		293	64.760	38.802	89.492	1.00 20.00
ATOM	2272	CB	GLU		64.180	37.407	89.727	1.00 20.00
ATOM	2273	CG	GLU	293	65.318	36.507	90.193	1.00 20.00
ATOM	2274	CD	GLU	293		36.755		1.00 20.00
MOTA	2275	OE1	GLU	293	66.481		89.775	
ATOM	2276	OE2		293	65.040	35.559	90.975	1.00 20.00
ATOM	2277	C	GLU	293	64.542	41.062	88.625	1.00 20.00
ATOM!	2278	0	GLU	293	65.427	41.219	87.788	1.00 20.00
ATOM	2279	N	MET	294	64.173	42.042	89.468	1.00 20.00
MOTA	2280	CA	MET	294	64.826	43.315	89.429	1.00 20.00
ATOM	2281	CB	MET	294	64.217	44.319	90.420	1.00 20.00
ATOM	2282	CG	MET	294	64.869	45.702	90.379	1.00 20.00
ATOM:	2283	SD	MET	294	64.156	46.897	91.550	1.00 20.00
MOTA	2284	CÉ	MET	294	65.245	48.265	91.060	1.00 20.00
ATOM	2285	С	MET	294	66.251	43.095	89.822	1.00 20.00
ATOM	2286	0	MET	294	67.168	43.650	89.218	1.00 20.00
ATOM	2287	И	GLU	295	66.474	42.249	90.844	1.00 40.00
ATOM	2288	CA	GLU	295	67.805	42.008	91.314	1.00 40.00
ATOM	2289	CB	GLU	295	68.039	42.506	92.750	1.00 40.00
ATOM	2290	CG	GLU	295	67.891	44.022	92.895	1.00 40.00
MOTA	2291	CD	GLU	295	69.035	44.691	92.148	1.00 40.00
ATOM	2292	OE1		295	70.192	44.615	92.642	1.00 40.00
ATOM	2293		GLU	295	68.767	45.289	91.072	1.00 40.00
ATOM	2294	C	GLU	295	67.994	40.529	91.327	1.00 40.00
ATOM:	2295	0	GLU	295	67.235	39.788	90.707	1.00 40.00
ATOM:	2296	N	GLU	296	69.037	40.054	92.037	1.00 40.00
ATOM	2297	CA	GLU	296	69.282	38.644	92.111	1.00 40.00
ATOM	2298	CB	GLU	296	70.540	38.261	92.910	1.00 40.00
ATOM	2299	CG	GLU	296	71.859	38.629	92.226	1.00 40.00
ATOM	2300	CD	GLU	296	72.137	40.107	92.460	1.00 40.00
ATOM	2301	OE:	LGLU	296	71.486	40.950	91.786	1.00 40.00
ATOM	2302	OE2	2 GLU	296	73.009	40.413	93.317	1.00 40.00
ATOM	2303	С	GLU	296	68.118	38.016	92.802	1.00 40.00
ATOM	2304	0	GLU	296	67.159	38.693	93.168	1.00 40.00
ATOM.	2305	N	ASP	297	68.183	36.684	92.990	
MOTA	2306	CA	ASP	297	67.104	35.969	93.604	1.00 40.00
ATOM	2307	CB	ASP	297	67.407	34.485	93.883	1.00 40.00
ATOM	2308	CG	ASP	297	68.533	34.410	94.905	1.00 40.00
ATOM	2309		L ASP	297	69.311	35.396	95.007	1.00 40.00
ATOM	2310	OD:	2 ASP	297	68.625	33.365	95.604	1.00 40.00

B. M.O.V.	2211	С	ASP	297	66.80	7 36.618	94.909	1.00 40.00
ATOM	2311			297	67.66		95.505	1.00 40.00
ATOM	2312	0	ASP	298	65.55		95.372	1.00 40.00
ATOM	2313	N	GLY				96.609	1.00 40.00
ATOM	2314	CA	GLY	298	65.19		96.276	1.00 40.00
ATOM	2315	С	GLY	298	64.64			1.00 40.00
ATOM	2316	0	GLY	298	63.96		97.091	
ATOM	2317	И	VAL	299	64.92		95.052	1.00 40.00
ATOM	2318	CA	VAL	299	64.37		94.705	1.00 40.00
ATOM	2319	CB	VAL	299	64.78		93.341	1.00 40.00
ATOM	2320	CG1	VAL	299	64.33	1 39.676	92.277	1.00 40.00
ATOM	2321	CG2	VAL	299	64.19	5 42.098	93.142	1.00 40.00
ATOM:	2322	С	LAV	299	62.89	8 40.028	94.753	1.00 40.00
ATOM	2323	0	VAL	299	62.33	0 39.173	94.078	1.00 40.00
ATOM	2324	N	ARG	300	62.23	7 40.824	95.608	1.00 40.00
ATOM	2325	ÇA	ARG	300	60.82		95.771	1.00 40.00
ATOM	2326	CB	ARG	300	60.27		96.912	1.00 40.00
ATOM	2327	CG	ARG	300	60.74		98.298	1.00 40.00
	2328	CD	ARG	300	60.20		99.436	1.00 40.00
ATOM				300	60.66			1.00 40.00
MOTA	2329	NE	ARG	300	59.91			1.00 40.00
ATOM	2330	CZ	ARG		58.74		100.739	1.00 40.00
ATOM	2331		ARG	300				1.00 40.00
ATOM	2332		ARG	300	60.32			1.00 40.00
ATOM	2333	С	ARG	300	60.12		94.527	1.00 40.00
ATOM	2334	0	ARG	300	59.19		94.069	
MOTA	2335	14	LYS	301	60.57		93.927	1.00 20.00
ATOM	2336	CA	LYS	301	59.83			1.00 20.00
ATOM	2337	CB	LYS	301	59.7€			1.00 20.00
ATOM	2338	CG	LYS	301	58.94			1.00 20.00
ATOM	2339	CD	LYS	301	59.12	7 46.431	94.097	1.00 20.00
ATOM	2340	CE	LYS	301	58.32	0 47.032	95.251	1.00 20.00
ATOM	2341	NZ	LYS	301	58.59	97 48.482	95.362	1.00 20.00
ATOM	2342	С	LYS	301	60.45	55 42.360	91.538	1.00 20.00
ATOM	2343	0	LYS	301	61.67	11 42.221	91.417	1.00 20.00
ATOM	2344	N	CYS	302	59.59			1.00 20.00
ATOM	2345	CA	CYS	302	60.07			1.00 20.00
ATOM	2346	CB	CYS	302	59.59			1.00 20.00
	2347	SG	CYS	302	60.70			1.00 20.00
MOTA		C	CYS	302	59.69			1.00 20.00
ATOM	2348			302	58.6			1.00 20.00
ATOM	2349	0	CYS	303	60.41			1.00 20.00
ATOM	2350	N	LYS	303	60.1			1.00 20.00
MOTA	2351	CA	LYS					1.00 20.00
MOTA	2352	CB	LYS	303	61.3			1.00 20.00
MOTA	2353	CG	LYS	303	62.5			1.00 20.00
ATOM	2354	CD	LYS	303	63.5			1.00 20.00
ATOM	2355	CE	LYS	303	64.6			1.00 20.00
ATOM	2356	NZ	LYS	303	65.4			1.00 20.00
ATOM	2357	С	LYS	303	59.9			1.00 20.00
MOTA	2358	0	LYS	303	60.2			
MOTA	2359	N	LYS	304	59.3			1.00 20.00
MOTA	2360	CA	LYS	304	59.0			1.00 20.00
ATOM	2361	CB	LYS	304	57.9			1.00 20.00
ATOM	2362	CG	LYS	304	57.5			1.00 20.00
ATOM	2363	CD	LYS	304	56.0			1.00 20.00
MOTA	2364	CE	LYS	304	55.8	02 45.90	6 80.526	1.00 20.00
MOTA	2365	NZ	LYS	304	56.3			1.00 20.00
ATOM	2366	С	LYS	304	60.3			1.00 20.00
ATOM	2367	0	LYS	304	61.2	29 44.81		1.00 20.00
ATOM	2368	N	CYS	305	60.4	26 43.12	0 81.060	1.00 20.00
ATOM	2369	CA	CYS	305	61.6	05 43.02	2 80.255	1.00 20.00
ATOM	2370	CB	CYS	305	61.9	23 41.57	6 79.836	1.00 20.00
ATOM	2371	SG	CYS	305	62.2	61 40.46	6 81.234	1.00 20.00
ATOM	2372	c	CYS	305	61.3		3 78.990	1.00 20.00
ATOM	2373		CYS	305	60.3			1.00 20.00
ATOM	2374	N	GLU	306	62.2	_		1.00 20.00
	2375		GLU	306	62.0			1.00 20.00
MOTA			GLU	306	63.0			
ATOM	2376							
MOTA	2377		GLU	306	62.9			
ATOM	2378			306	64.0			
ATOM	2379			306	65.0			
MOTA	2380			306	63.9			
MOTA	2381		GLU	306	62.2			-
ATOM	2382		GLU	306	63.3			
ATOM	2383		GLY	307	61.1			
MOTA	2384			307	61.2			
ATOM	2385		GLY	307	61.3			
ATOM	2386		GLY	307	60.8			
ATOM	2387	' N	PRO	308	61.9	915 40.66	3 74.674	1.00 20.00

Figure 6 (continued)

ATOM	2388	CA	PRO	308	62.045	39.363	75.260	1.00 20.00
ATOM	2389		PRO	308	61.778	40.595	73.229	1.00 20.00
ATOM	2390		PRO	308	62.453	38.433	74.123	1.00 20.00
ATOM	2391		PRO	308	61.825	39.097	72.882	1.00 20.00
ATOM	2392		PRO	308	63.009	39.444	76.395	1.00 20.00
ATOM	2393		PRO	308	63.960	40.219	76.315	1.00 20.00
ATON:	2394		CYS	309	62.782	38.656	77.461	1.00 20.00
ATOM	2395		CYS	309	63.646	38.731	78.600	1.00 20.00
ATOM	2396	СЭ	CYS	309	63.155	37.947	79.827	1.00 20.00
ATOM	2397	SG	CYS	309	61.647	38.660	80.535	1.00 20.00
ATOM	2398	С	CYS	309	64.968	38.170	78.213	1.00 20.00
ATOM	2399	0	CYS	309	65.075	37.383	77.274	1.00 20.00
MOTA	2400	Ν'	ARG	310	66.021	38.587	78.939	1.00 20.00
MOTA	2401	CA	ARG	310	67.329	38.103	78.638	1.00 20.00
MOTA	2402		ARG	310	68.455	38.788	79.429 79.060	1.00 20.00
ATOM	2403	CG	ARG	310	68.714	40.248	79.880	1.00 20.00
ATOM	2404	CD	ARG	310	69.852 70.033	42.269	79.445	1.00 20.00
ATOM	2405	NE	ARG	310	70.714	43.137	80.248	1.00 20.00
ATOM	2406	CZ	ARG	310 310	71.198	42.711	81.451	1.00 20.00
ATOM	2407	NH1		310	70.907	44.428	79.851	1.00 20.00
MOTA	2408	NH2 C	ARG	310	67.381	36.665	79.018	1.00 20.00
MOTA	2409	0	ARG	310	66.769	36.240	79.998	1.00 20.00
ATOM ATOM	2410 2411	N	LYS	311	68.105	35.874	78.210	1.00 20.00
ATOM	2412	CA	LYS	311	68.309	34.493	78.507	1.00 20.00
ATOM	2413	СВ	LYS	311	67.442	33.546	77.659	1.00 20.00
ATOM	2414	CG	LYS	311	67.695	33.660	76.155	1.00 20.00
ATOM	2415	CD	LYS	311	67.052	32.535	75.341	1.00 20.00
ATOM	2416	CE	LYS	311	65.524	32.593	75.322	1.00 20.00
ATOM	2417	NZ	LYS	311	64.982	31.475	74.516	1.00 20.00
MOTA	2418	C	LYS	311	69.739	34.229	78.170	1.00 20.00
ATOM	2419	0	LYS	311	70.274	34.799	77.221	1.00 20.00
MOTA	2420	N	VAL	312	70.408	33.369	78.957	1.00 20.00
ATOM	2421	CA	VAL	312	71.785	33.090	78.680	1.00 20.00
ATOM	2422	CB	VAL	312	72.524	32.534	79.860	1.00 20.00 1.00 20.00
MOTA	2423		VAL	312	72.548	33.595	80.972 80.272	1.00 20.00
ATOM:	2424		VAL	312	71.850	31.214	77.590	1.00 20.00
MOTA	2425	C	VAL	312	71.810	32.027 31.582	77.169	1.00 20.00
ATOM	2426	0	VAL	312	72.933	31.643	77.168	1.00 20.00
MOTA	2427	OXI	VAL	312	12.333	51.045		•
TER	,	N	CYS	313	73.141	29.695	76.381	1.00 40.00
ATOM ATOM	1 2	CA	CYS	313	73.419	28.319	75.901	1.00 40.00
ATOM	3	C	CYS	313	74.891	28.025	76.031	1.00 40.00
ATOM	4	ō	CYS	313	75.701	28.940	75.935	1.00 40.00
ATOM	5	CB	CYS	313	72.951	28.209	74.438	1.00 40.00
MOTA	6	SG	CYS	313	71.140	28.384	74.330	1.00 40.00
ATOM	7	N	ASN	314	75.288	26.752	76.281	1.00 40.00
ATOM	8	CA	ASN	314	76.686	26.424	76.461	1.00 40.00
ATOM	9	C	ASN	314	77.304	26.180	75.118	1.00 40.00
ATOM	10	0	ASN	314	76.621	26.277	74.100	1.00 40.00
ATOM	11	СВ	ASN	314	76.926	25.170		1.00 40.00
ATOM	12	CG	ASN	314	76.570			1.00 40.00
MOTA	13		LASN	314	76.310 76.568			
MOTA	14		2 ASN	314 315	78.627			1.00 40.00
ATOM	15		GLY GLY	315	79.353			
ATOM	16 17		GLY	315	78.558			
MOTA MOTA	18		GLY	315	78.278			
ATOM	19		ILE	316	78.173	24.968	71.884	1.00 40.00
ATOM	20			316	77.311		71.163	
ATOM	21		ILE	316	78.041	23.538	69.985	1.00 40.00
ATOM	22		ILE	316	78.765	24.250	69.291	
ATOM	23			316	76.080			
ATOM	24		1 ILE	316	75.286			
ATOM	25			316	75.280			
ATOM	26		1 ILE	316	74.190			
MOTA	2		GLY	317	77.876			
MOTA	28	B CA		317	78.486			
ATOM	2 9		GLY	317	77.37			
ATOM	30		GLY	317	76.969			
MOTA	3:		ILE	318	76.87			
ATOM	3:			318	75.788 76.39			
ATOM	3:		ILE	318 318	77.60			
ATOM ATOM	3- 3-				75.04			
ATOM	3		1 ILE		74.53			

7/001	37	CG2 ILE	318	73.908	22.013	64.486	1.00 40.00
ATOM ATOM	38	CD1 ILE	318	73.552	22.811	67.434	1.00 40.00
ATOM	39	N GLY	319	75.571	19.755	64.212	1.00 40.00
ATOM	4 C	CA GLY	319	76.088	18.939	63.155	1.00 40.00
ATOM	41	C GLY	319	76.427	17.606	63.734	1.00 40.00
ATOM	42	O GLY	319	76.272	17.374	64.932	1.00 40.00
ATOM	43	N GLU	320	76.901	16.690	62.869	1.00 40.00
ATOM	4 4	CA GLU	320	77.247	15.367	63.294	1.00 40.00
ATOM	45	C GLU	320	78.718	15.216	63.107	1.00 40.00
ATOM	46	O GLU	320 320	79.383 76.570	16.103 14.257	62.573 62.473	1.00 40.00
ATOM	47 48	CB GLU	320	75.058	14.237	62.694	1.00 40.00
ATOM ATOM	49	CD GLU	320	74.817	13.615	64.083	1.00 40.00
ATOM	50	OE1 GLU	320	75.209	12.439	64.312	1.00 40.00
ATOM	51	OE2 GLU	320	74.242	14.343	64.934	1.00 40.00
ATOM	52	N PHE	321	79.270	14.081	63.574	1.00 60.00
MOTA	53	CA PHE	321	80.678	13.870	63.447	1.00 60.00
MOTA	54	C PHE	321	81.006	13.918	61.993	1.00 60.00
ATOM	55	O PHE	321 321	80.186 81.158	13.574 12.514	61.144 63.994	1.00 60.00
ATOM ATOM	56 57	CB PHE	321	80.977	12.521	65.474	1.00 60.00
ATOM	58	CD1 PHE	321	79.764	12.188	66.031	1.00 60.00
ATOM	59	CD2 PHE	321	82.020	12.858	66.305	1.00 60.00
ATOM	60	CE1 PHE	321	79.595	12.192	67.397	1.00 60.00
ATOM	61	CE2 PHE	321	81.858	12.864	67.670	1.00 60.00
MOTA	62	CZ PHE	321	80.642	12.531	68.219	1.00 60.00
ATOM	63	N LYS	322	82.230	14.378	61.679	1.00 60.00
ATOM	64	CA LYS	322	82.658 82.709	14.500 13.137	60.319 59.717	1.00 60.00 1.00 60.00
MOTA	65 66	C LYS	322 322	82.299	12.937	58.575	1.00 60.00
ATOM ATOM	66 67	CB LYS	322	84.067	15.103	60.187	1.00 60.00
ATOM	68	CG LYS	322	85.161	14.223	60.795	1.00 60.00
ATOM	69	CD LYS	322	86.576	14.625	60.377	1.00 60.00
ATOM	70	CE LYS	322	87.666	13.743	60.989	1.00 60.00
ATOM	71	NZ LYS	322	89.000	14.195	60.533	1.00 60.00
ATOM	72	N ASP	323	83.210	12.152	60.484	1.00 60.00
ATOM	73	CA ASP	323	83.348 81.994	10.833	59.946 59.549	1.00 60.00 1.00 60.00
ATOM	74 75	C ASP O ASP	323 323	81.817	9.818	58.455	1.00 60.00
ATOM ATOM	76	CB ASP	323	83.924	9.827	60.961	1.00 60.00
ATOM	77	CG ASP	323	84.217	8.514	60.245	1.00 60.00
ATOM	78	OD1 ASP	323	83.830	8.377	59.054	1.00 60.00
MOTA	79	OD2 ASP	323	84.835	7.624	60.888	1.00 60.00
ATOM	80	N SER	324	80.988	10.546	60.419	1.00 60.00 1.00 60.00
ATOM	81	CA SER C SER	324 324	79.691 79.241	10.070	60.054 58.874	1.00 60.00
ATOM ATOM	82 83	C SER O SER	324	79.250	12.091	58.894	1.00 60.00
ATOM	84	CB SER	324	78.635	10.219	61.163	1.00 60.00
ATOM	85	OG SER	324	78.416	11.592	61.453	1.00 60.00
ATOM	86	N LEU	325	78.851	10.156	57,796	1.00 60.00
MOTA	87	CA LEU	325	78.392	10.817	56.614	1.00 60.00
ATOM	88	C LEU	325	77.121	11.514	56.961	1.00 60.00
ATOM	89	O LEU	325 325	76.893 78.086	12.652 9.846	56.555 55.458	1.00 60.00
ATOM	90 91	CB LEU	325	79.330	9.127	54.907	1.00 60.00
ATOM ATOM	92	CD1 LEU	325	80.303	10.118	54.249	1.00 60.00
MOTA	93	CD2 LEU	325	79.998	8.257	55.983	1.00 60.00
ATOM	94	N SER	326	76.262	10.841	57.746	1.00 60.00
ATOM	95	CA SER	326	75.004	11.425	58.094	1.00 60.00
ATOM	96	C SER	326	75.270	12.652	58.895 59.762	1.00 60.00
ATOM	97	O SER	326	76.143 74.111	12.672 10.504	58.942	1.00 60.00
ATOM	98 99	CB SER OG SER	326 326	74.705	10.289	60.215	1.00 60.00
ATOM ATOM	100		327	74.516	13.727	58.600	1.00 60.00
ATOM	101	CA ILE	327	74.664	14.952	59.323	1.00 60.00
ATOM	102		327	73.323	15.261	59.890	
ATOM	103	O ILE	327	72.301	14.971	59.270	
ATOM	104		327	75.059	16.121	58.465	
ATOM	105		327	73.974	16.438	57.418	1.00 60.00
ATOM	106		327	76.433 73.735	15.806 15.320	57.851 56.404	1.00 60.00
ATOM	107 108		327 3 28	73.735	15.320	61.105	
ATOM ATOM	109		328	72.004	16.147	61.667	
MOTA	110		328	71.761	17.606		
ATOM	111		328	72.239			
ATOM	112		328	71.899			
ATOM	113	CG ASN	328	71.874	14.337	63.352	1.00 40.00

ATOM:	114	ODI ASI.	328	71.796	13.832	64.471	1.00 40.00
ATOM	115	ND2 ASN	328	71.943	13.591	62.217	1.00 40.00
MOTA	116	ii ALA	329	71.003	17.944	60.421	1.00 40.00
ATOM	117	CA ALA	329	70.649	19.301	60.133	1.00 40.00
ATOM	118	C ALA	329	69.694	19.720	61.196 61.633	1.00 40.00
ATOM	119	C ALA	329 329	69.693 69.934	20.870	58.780	1.00 40.00
ATOM	120 121	CB ALA :: THR	330	68.891	18.753	61.672	1.00 40.00
ATOM ATOM	122	CA THE	330	67.833	18.948	62.619	1.00 40.00
ATOM	123	C THR	330	68.393	19.563	63.859	1.00 40.00
ATOM	124	C THR	330	67.671	20.212	64.612	1.00 40.00
ATOM.	125	C2 THR	330	67. 1 71	17.662	63.016	1.00 40.00
ATOM	126	OG1 THR	330	66.028	17.923	63.816	1.00 40.00
ATOM	127	CG2 THR	330	68.183	16.804	63.794	1.00 40.00
ATOM	128	: ASN	331 331	69.699 70.371	19.365 19.838	64.098 65.274	1.00 40.00
ATOM	129 130	CA ASN C ASN	331	70.292	21.336	65.372	1.00 40.00
ATOM ATOM	131	C ASN	331	70.402	21.883	66.467	1.00 40.00
ATOM	132	CB ASN	331	71.860	19.449	65.312	1.00 40.00
ATOM	133	C3 ASN	331	71.946	17.950	65.562	1.00 40.00
MOTA	134	OD1 ASN	331	70.960	17.310	65.920	1.00 40.00
ATOM	135	ND2 ASN	331	73.165	17.374	65.382	1.00 40.00
ATOM	136	v ire	332	70.092	22.042	64.242	1.00 40.00
ATOM	137	CA ILE	332	70.108 69.051	23.485 24.037	64.191 65.100	1.00 40.00
MOTA	138 139	O ILE	332 332	69.149	25.179	65.541	1.00 40.00
ATOM ATOM	140	Ca ILE	332	69.769	24.053	62.844	1.00 40.00
ATOM	141	CG1 ILE	332	68.266	23.885	62.540	1.00 40.00
ATOM	140	CG2 ILE	332	70.704	23.413	61.806	1.00 40.00
ATOM	143	CD1 ILE	332	67.726	22.463	62.660	1.00 40.00
ATOM	144	II LYS	333	67.992	23.251	65.363	1.00 40.00
MOTA	145	CA LYS	333	66.837	23.647	66.124	1.00 40.00
MOTA	146	C LYS	333	67.199	24.000	67.537	1.00 40.00
MOTA	147	O LYS	333 333	66.528 65.769	24.820 22.542	68.160 66.172	1.00 40.00
ATOM ATOM	148 149	CB LYS	333	65.218	22.199	64.787	1.00 40.00
ATOM	150	CO LYS	333	64.406	20.905	64.744	1.00 40.00
ATOM	151	CE LYS	333	63.906	20.545	63.344	1.00 40.00
ATOM	152	NZ LYS	333	63.016	21.610	62.832	1.00 40.00
ATOM	153	N HIS	334	68.273	23.406	68.084	1.00 40.00
ATOM	154	CA HIS	334	68.644 68.796	23.624 25.099	69.456 69.680	1.00 40.00
ATOM	155 156	C HIS	334 334	68.549	25.598	70.776	1.00 40.00
ATOM ATOM	157	CB HIS	334	69.985	22.955	69.807	1.00 40.00
ATOM	158	CG HIS	334	70.406	23.151	71.234	1.00 40.00
ATOM	159	ND1 HIS	334	69.981	22.368	72.281	1.00 40.00
MOTA	160	CD2 HIS	334	71.250	24.073	71.777	1.00 40.00
MOTA	161	CE1 HIS	334	70.583	22.848	73.400 73.142	1.00 40.00
ATOM	162	NE2 HIS N PHE	334 335	71.363 69.224	23.882 25.820	68.629	1.00 40.00
ATOM ATOM	163 164	CA PHE	335	69.474	27.234	68.584	1.00 40.00
ATOM	165	C PHE	335	68.254	28.089	68.681	1.00 40.00
MOTA	166	O PHE	335	68.374	29.298	68.858	1.00 40.00
ATOM	167	CB PHE	335	70,297	27.691	67.370	1.00 40.00
MOTA	168	CG PHE	335	71.706	27.589	67.820	1.00 40.00
ATOM	169	CD1 PHE	335	72.240	28.629	68.545 67.544	1.00 40.00
ATOM	170	CD2 PHE	335 335	72.483 73.535	26.488 28.586	68.995	1.00 40.00
ATOM ATOM	171 172	CE1 PHE CE2 PHE	335	73.781	26.440	67.991	1.00 40.00
ATOM	173	CZ PHE	335	74.304	27.487	68.715	1.00 40.00
ATOM	174	N LYS	336	67.051	27.522	68.531	1.00 40.00
ATOM	175	CA LYS	336	65.866	28.333	68.487	1.00 40.00
ATOM	176	C LYS	336	65.759	29.252	69.680	1.00 40.00
ATOM	177	O LYS	336	65.379	30.408 27.464	69.520 68.435	1.00 40.00
ATOM	178 179	CB LYS	336 336	64.598 64.487	26.491	69.611	1.00 40.00
ATOM ATOM	180	CG LYS	336	63.202	25.662	69.617	1.00 40.00
ATOM	181	CE LYS	336	61.952	26.448	70.013	1.00 40.00
MOTA	182	NZ LYS	336	60.772	25.556	69.986	1.00 40.00
MOTA	183	: ASN	337	66.049	28.781	70.909	1.00 40.00
MOTA	184	CA ASN	337	65.885	29.587	72.098	1.00 40.00
ATOM	185	C ASN	337	66.954	30.630	72.351 72.818	1.00 40.00
MOTA MOTA	186 187	O ASN CB ASN	337 337	66.645 65.786	31.726 28.723	73.367	1.00 40.00
ATOM	188	CG ASN	337	64.491	27.932	73.266	1.00 40.00
ATOM	189		337	63.580	28.306	72.528	1.00 40.00
ATOM	190		337	64.399	26.811	74.031	1.00 40.00

ATON:	191	N ·	CYS	338	68.234	30.326	72.051	1.00 20.00
ATON:	192		CYS	338	69.379	31.096	72.480	1.00 20.00
ATON	193		CYS	338	69.420	32.509	71.971	1.00 20.00
ATOM	194	0	CYS	338	69.349	32.762	70.769	1.00 20.00
MOTA:	195		CYS	338	70.719	30.436	72.074	1.00 20.00
ATO:	196		CYS	338	70.738	28.635	72.353 72.915	1.00 20.00
ATOM	197		THR	339	69.443 69.718	33.478 34.859	72.633	1.00 20.00
ATOM	198		THR THR	339 339	71.203	35.045	72.625	1.00 20.00
ATOM	199 200	C 0	THR	339	71.760	35.738	71.778	1.00 20.00
MOTA MOTA	201	CB	THR	339	69.148	35.778	73.671	1.00 20.00
ATOM	202		THR	339	69.710	35.492	74.943	1.00 20.00
ATOM	203	CG2	THR	339	67.622	35.583	73.710	1.00 20.00
ATO!!	204	N	SER	340	71.899	34.433	73.604	1.00 20.00
AT'CM	205	CA	SER	340	73.322	34.600	73.667	1.00 20.00
ATOM	206	С	SER	340	73.943	33.319	74.101 75.275	1.00 20.00 1.00 20.00
ATOM	207	0	SER	340 340	73.883 73.760	32.957 35.676	74.671	1.00 20.00
ATOM	208	CB OG	SER SER	340	75.174	35.789	74.682	1.00 20.00
ATOM ATOM	209 210	N	ILE	341	74.599	32.602	73.174	1.00 20.00
ATOM	211	CA	ILE	341	75.211	31.387	73.606	1.00 20.00
ATOM	212	С	ILE	341	76.462	31.743	74.326	1.00 20.00
ATOM	213	0	ILE	341	77.368	32.347	73.758	1.00 20.00
ATOM	214	CB	ILE	341	75.562	30.414	72.516	1.00 20.00
MOTA	215	CG1	ILE	341	76.509	31.042	71.490	1.00 20.00
MOTA!	216	CG2	ILE	341	74.273	29.845	71.926 70.499	1.00 20.00
ATON	217	CD1	ILE	341	77.062 76.524	30.019 31.398	75.626	1.00 20.00
ATOM	218	N CA	SER SER	342 342	77.714	31.658	76.372	1.00 20.00
ATOM	219 220	C	SER	342	78.615	30.489	76.153	1.00 20.00
ATOM ATOM	221	0	SER	342	78.595	29.507	76.896	1.00 20.00
ATOM	222	СВ	SER	342	77.474	31.836	77.885	1.00 20.00
ATOM	223	OG	SER	342	76.898	30.667	78.447	1.00 20.00
ATOM	224	Ν	GLY	343	79.443	30.578	75.098	1.00 20.00
MOTA	225	CA	GLY	343	80.341	29.520	74.757	1.00 20.00
MOTA	226	C	GLY	343	80.654	29.709 30.832	73.312 72.814	1.00 20.00
ATOM	227	0	GLY ASP	343 344	80.673 80.915	28.606	72.589	1.00 20.00
ATOM ATOM	228 229	N CA	ASP	344	81.237	28.744	71.201	1.00 20.00
ATOM	230	C	ASP	344	80.220	27.989	70.417	1.00 20.00
ATOM	231	ō	ASP	344	79.543	27.108	70.942	1.00 20.00
ATOM	232	CB	ASP	344	82.618	28.172	70.836	1.00 20.00
MOTA	233	CG	ASP	344	83.680	29.048	71.486	1.00 20.00
MOTA	234		ASP	344	83.453	30.284 28.491	71.582 71.907	1.00 20.00 1.00 20.00
ATOM	235	OD2	ASP LEU	344 345	84.728 80.060	28.353	69.130	1.00 20.00
ATOM ATOM	236 237	N CA	LEU	345	79.138	27.650	68.291	1.00 20.00
ATOM	238	c.	LEU	345	79.914	27.012	67.189	1.00 20.00
ATOM	239	0	LEU	345	80.743	27.652	66.545	1.00 20.00
ATOM	240	CB	LEU	345	78.064	28.545	67.655	1.00 20.00
ATOM	241	CG	LEU	345	77.216	27.798	66.613	1.00 20.00
ATOM	242	CD1		345	76.625	26.510	67.202	1.00 20.00
MOTA	243	CD2		345	76.147 79.679	28.719 25.705	66.005 66.964	1.00 20.00
MOTA	244	N	HIS	346 346	80.368	25.032	65.906	1.00 20.00
ATOM ATOM	245 246	CA	HIS	346	79.332	24.417	65.028	1.00 20.00
ATOM	247	Ö	HIS	346	78.422	23.742	65.505	1.00 20.00
ATOM	248	СВ	HIS	346	81.271	23.880	66.379	
ATOM	249	CG	HIS	346	82.367	24.324	67.299	
ATOM	250	ND	HIS	346	82.427	24.010		
MOTA	251		2 HIS	346	83.468	25.083		
ATOM	252		HIS	346	83.553	24.588		
ATOM	253		2 HIS	346	84.218 79.422	25.249 24.663		
MOTA	254	N CA	ILE	347 347	78.486	24.003		
ATOM ATOM	255 256		ILE	347	79.288			
ATOM	257		ILE	347	79.766			1.00 20.00
ATOM	258		ILE	347	77.616	24.986		
ATOM	259	CG	1 ILE	347	76.777			
MOTA	260		2 ILE	347	76.768			
ATOM	261		1 ILE	347	76.006			
ATOM	262		LEU	348	79.435 80.215			
ATOM	263 264		LEU	348 348	79.431			
ATOM ATOM	265		LEU	348	78.298			1.00 20.00
MOTA	266			348	80.538	19.67	62.066	1.00 20.00
MOTA	267			348	81.462	19.80	63.290	1.00 20.00

	0.00	601 15	348	80.781	20.573	64.436	1.00 20.00
ATOM:	268	CD1 LE-					
ATOM	269	CD2 LEU	349	81.998	18.435	63.728	1.00 20.00
ATOM	270	N PRO	349	80.010	19.931	59.276	1.00 20.00
ATOM	271	CA PRO	349	79.366	19.644	58.037	1.00 20.00
ATOM	272	C PRO	349	78.014	19.067	58.219	1.00 20.00
ATOM	273	O PRC	349	77.885	17.991	58.798	1.00 20.00
ATOM	274	CB PRO	349	80.352	18.799	57.240	1.00 20.00
ATOM	275	CG PRC	349	81.723	19.295	57.748	1.00 20.00
ATOM:	276	CD PRC	349	81.455	19.787	59.184	1.00 20.00
			350	76.993	19.788	57.726	1.00 40.00
ATOM	277	N VAL				57.787	1.00 40.00
ATOM	278	CA VAL	350	75.647	19.318		
ATOM	279	c VAL	350	75.029	19.699	56.487	1.00 40.00
ATOM	280	o VAL	350	75.424	20.690	55.873	1.00 40.00
ATOM	281	CB VAL	350	74.835	19.957	58.874	1.00 40.00
ATOM	282	CG1 VAL	350	73.395	19.422	58.788	1.00 40.00
ATOM	283	CG2 VAL	350	75.520	19.681	60.223	1.00 40.00
ATOM	284	N ALA	351	74.046	18.887	56.054	1.00 40.00
ATOM	285	CA ALA	351	73.308	19.114	54.850	1.00 40.00
ATOM	286	C ALA	351	71.882	18.863	55.211	1.00 40.00
ATOM	287	O ALA	351	71.592	18.324	56.278	1.00 40.00
	288	CB ALA	351	73.670	18.147	53.711	1.00 40.00
MOTA			352	70.942	19.266	54.337	1.00 60.00
MOTA	289	N PHE				54.655	1.00 60.00
ATOM	290	CA PHE	352	69.562	19.052		
ATOM	291	C PHE	352	69.115	17.830	53.923	1.00 60.00
ATOM	292	O PHE	352	69.436	17.639	52.752	1.00 60.00
ATOM	293	CE PHE	352	68.644	20.213	54.235	1.00 60.00
ATOM	294	CG PHE	352	68.734	20.336	52.754	1.00 60.00
ATOM	295	CD1 PHE	352	69.765	21.037	52.174	1.00 60.00
MOTA	296	CD2 PHE	352	67.787	19.750	51.945	1.00 60.00
ATOM	297	CE1 PHE	352	69.852	21.153	50.807	1.00 60.00
ATOM	298	CE2 PHE	352	67.869	19.863	50.578	1.00 60.00
ATOM	299	CZ PHE	352	68.903	20.566	50.006	1.00 60.00
ATOM	300	N ARG	353	68.370	16.954	54.623	1.00 60.00
ATOM	301	CA ARG	353	67.910	15.741	54.018	1.00 60.00
			353	66.481	15.567	54.413	1.00 60.00
MOTA	302			65.982	16.254	55.303	1.00 60.00
ATOM	303	O ARG	353			54.539	1.00 60.00
MOTA	304	CB ARG	353	68.631	14.488		1.00 60.00
ATOM	305	CG ARG	353	68.391	14.268	56.034	
ATOM	306	CD ARG	353	69.082	13.034	56.616	1.00 60.00
MOTA	307	NE ARG	353	68.733	12.984	58.065	1.00 60.00
ATOM	308	CZ ARG	353	69.009	11.868	58.801	1.00 60.00
ATOM	309	NH1 ARG	353	69.624	10.799	58.217	1.00 60.00
ATOM	310	NH2 ARG	353	68.671	11.823	60.123	1.00 60.00
ATOM	311	N GLY	354	65.781	14.634	53.741	1.00 60.00
ATOM	312	CA GLY	354	64.425	14.346	54.097	1.00 60.00
ATOM	313	C GLY	354	63.538	15.391	53.511	1.00 60.00
ATOM	314	O GLY	354	62.364	15.484	53.867	1.00 60.00
ATOM	315	N ASP	355	64.073	16.214	52.592	1.00 60.00
ATOM	316	CA ASP	355	63.241	17.225	52.017	1.00 60.00
		C ASP	355	62.771	16.715	50.698	1.00 60.00
ATOM	317		355	63.557	16.218	49.893	1.00 60.00
ATOM	318	O ASP			18.556	51.761	1.00 60.00
ATOM	319	CB ASP	355	63.970			1.00 60.00
MOTA	320	CG ASP	355	64.250	19.201	53.110	
ATOM	321	OD1 ASP	355	63.577	18.815	54.103	1.00 60.00
ATOM	322	OD2 ASP	355	65.141	20.089	53.166	1.00 60.00
ATOM	323	n ser	356	61.451	16.815	50.456	1.00 60.00
MOTA	324	CA SER	356	60.917	16.363	49.208	1.00 60.00
ATOM	325	C SER	356	61.282	17.388	48.192	1.00 60.00
ATOM	326	O SER	356	61.483	18.558	48.518	1.00 60.00
ATOM	327	CB SER	356	59.387	16.213	49.205	1.00 60.00
ATOM	328	OG SER	356	58.771	17.476	49.400	1.00 60.00
		N PHE	357	61.399	16.964	46.921	1.00 60.00
ATOM	329 330	CA PHE	357	61.770	17.890	45.898	1.00 60.00
ATOM				60.708	18.934	45.814	1.00 60.00
ATOM	331	C PHE	357	61.003	20.127	45.781	1.00 60.00
ATOM.	332	O PHE	357				
ATOM	333	CB PHE	357	61.884	17.240	44.509	1.00 60.00
ATOM	334	CG PHE	357	63.068		44.530	
ATOM	335	CD1 PHE	357	64.329		44.306	
MOTA	336	CD2 PHI	357	62.917		44.771	1.00 60.00
ATOM	337	CE1 PHE	357	65.426		44.322	1.00 60.00
ATOM	338	CE2 PHE	357	64.010		44.789	
ATOM	339	CZ PHE	357	65.267		44.564	
ATOM	340		358	59.431		45.796	
ATOM	341		358	58.392		45.675	
ATOM	342		358	57.591	19.500	46.933	
ATOM	343		358	57.220		47.469	
ATOM	344		358	57.446		44.540	

ATO!	345	OG1 THR	358	56.552	20.309	44.379	1.00 60.00
ATO:	346	CG2 THR	358	56.666	17.923	44.833	1.00 60.00
ATOM	347	N HIS	359	57.329	20.716	47.445	1.00 60.00
ATOM	348	CA HIS	359	56.531	20.884	49.621	1.00 60.00
ATO:	349	C HIS	359	56.047	22.295	48.561	1.00 60.00
ATO:	350	O HIS	359	56.372	23.022	47.623	1.00 60.00
ATOM	351	CB HIS	359	57.315	20.697	49.933	1.00 60.00
ATCN'	352	CG HIS	359	56.429	20.549	51.136	1.00 60.00
ATOM	353	ND1 HIS	359	55.994	21.590	51.926	1.00 60.00
ATOM	354	CD2 HIS	359	55.890	19.423	51.680	1.00 60.00
ATO::	355	CEI HIS	359	55.222	21.046	52.899	1.00 60.00
ATOM	356	NE2 HIS	359	55.129	19.734	52.791	1.00 60.00
ATOM:	357	N THR	360	55.238	22.726	49.547	1.00 60.00
MOTA	358	CA THR	360	54.780	24.083	49.509	1.00 60.00
ATOM	359	C THR	360	55.676	24.869	50.406	1.00 60.00
ATON:	360	O THR	360	55.799	24.583	51.597	1.00 60.00
ATOM	361	CB THR	360	53.376	24.261	50.010	1.00 60.00
ATOM:	360	OG1 THR	360	52.473	23.498	49.224	1.00 60.00
ATOM	363	CG2 THR	360	53.014	25.754	49.934	1.00 60.00
ATOM	364	N PRO	361	56.334	25.840	49.840	1.00 60.00
ATOM	365	CA PRO	361	57.221	26.630	50.645	1.00 60.00
ATOM	366	C PRO	361	56.479	27.590	51.514	1.00 60.00
ATOM	367	O PRO	361	55.427	28.084	51.114	1.00 60.00
ATOM	368	CB PRO	361	58.181	27.312	49.673	1.00 60.00
ATOM	369	CG PRO	361	58.220	26.351	48.472	1.00 60.00
ATOM	370	CD PRO	361	56.840	25.673	48.486	1.00 60.00
ATOM	371	N PRO	362	56.999	27.822	52.683	1.00 60.00
ATOM:	372	CA PRO	362	56.413	28.808	53.549	1.00 60.00
MOTA	373	C PRO	362	56.920	30.135	53.099	1.00 60.00
ATOM	374	O PRO	362	57.846	30.166	52.290	1.00 60.00
ATOM	375	CB PRO	362	56.860	28.452	54.965	1.00 60.00
ATOM	376	CG PRO	362	57.141	26.943	54.894	1.00 60.00
ATOM	377	CD PRO	362	57.562	26.711	53.436	1.00 60.00
MOTA	378	N LEU	363	56.338	31.243	53.595	1.00 60.00
MOTA	379	CA LEU	363	56.852	32.514	53.187	1.00 60.00
ATOM	380	C LEU	363	58.279	32.531	53.615	1.00 60.00
ATOM	381	O LEU	363	59.170	32.867	52.835	1.00 60.00
ATOM	382	CB LEU	363	56.147	33.699	53.871	1.00 60.00
MOTA	383	CG LEU	363	54.671	33.865	53.464	1.00 60.00
ATOM	384	CD1 LEU	363	54.541	34.253	51.983	1.00 60.00
ATOM	385	CD2 LEU	363	53.845	32.621	53.830	1.00 60.00
ATOM	386	N ASP	364	58.535	32.141	54.878	1.00 60.00
ATOM	387	CA ASP	364	59.884	32.075	55.347	1.00 60.00
MOTA	388	C ASP	364	60.034	30.739	55.998	1.00 60.00
MOTA	389	O ASP	364	59.242	30.367	56.862	1.00 60.00
ATOM	390	CB ASP	364	60.220	33.144	56.398 56.629	1.00 60.00
ATOM	391	CG ASP	364	61.724	33.115	56.114	1.00 60.00
ATOM:	392	OD1 ASP	364	62.382	32.172	57.317	1.00 60.00
ATOM	393	OD2 ASP	364	62.234	34.038	55.587	1.00 60.00
ATOM	394	N PRO	365	61.018	29.993 28.703	56.196	1.00 60.00
MOTA	395	CA PRO	365 365	61.183 61.803	28.818	57.548	1.00 60.00
ATOM	396 397	C PRO		62.597	29.730	57.772	1.00 60.00
MOTA		O PRO CB PRO	365 365	61.980	27.861	55.207	1.00 60.00
ATOM	398		365	61.649	28.494	53.844	1.00 60.00
ATOM	400	CG PRO	365	61.360	29.968	54.173	1.00 60.00
ATOM ATOM	401	N GLN	366	61.429	27.908	58.467	1.00 60.00
ATOM	402	CA GLN	366	61.933	27.893	59.809	1.00 60.00
ATOM	403	C GLN	366	63.377	27.500	59.802	1.00 60.00
ATOM	404	O GLN	366	64.192	28.068	60.527	1.00 60.00
ATOM	405	CB GLN	366	61.201	26.866	60.691	1.00 60.00
ATOM	406	CG GLN	366	59.715	27.169	60.889	1.00 60.00
ATOM	407	CD GLN	366	59.598	28.345	61.848	1.00 60.00
ATOM	408	OE1 GLN	366	60.192	29.401	61.635	1.00 60.00
ATOM:	409	NE2 GLN	366	58.814	28.154	62.942	1.00 60.00
MOTA	410		367	63.724	26.506	58.965	1.00 60.00
ATOM	411	CA GLU	367	65.044	25.946	58.944	1.00 60.00
ATOM	412	C GLU	367	66.047	26.988	58.576	1.00 60.00
ATOM	413		367	67.143	27.027	59.132	1.00 60.00
ATOM	414		367	65.193		57.921	1.00 60.00
ATOM	415		367	66.599		57.891	1.00 60.00
ATOM	416		367	66.623		56.846	
ATOM	417		367	65.554	22.842	56.230	
ATOM	418		367	67.711	22.497	56.648	
ATOM	419		368	65.692		57.631	
ATOM	420		368	66.639		57.149	
ATOM	421		368	67.144	29.693	58.252	1.00 40.00

ATOM	422	O LE	tt.	368	69.335	29.999	58.289	1.00 40.00
ATOM	423	CB LE		368	66.064	29.752	56.062	1.00 40.00
ATOM	424	CG LE		368	65.883	29.062	54.699	1.00 40.00
ATOM	425	CD1 LE	ξį.	368	64.978	27.828	54.805	1.00 40.00
MOTA	426	CD2 LE	EU	368	65.403	30.061	53.635	1.00 40.00
ATOM	427	N AS	S F	369	66.285	30.128	59.191	1.00 40.00
ATOM	428	CA AS	SP	369	66.841	31.074	60.102	1.00 40.00
ATOM	429	C AS	5 P	369	66.613	30.516	61.452	1.00 40.00
ATOM	430		SP	369	65.469	30.262	61.829	1.00 40.00
ATOM	431		SP	369	66.170	32.458	60.047	1.00 40.00
ATOM	432		SP	369	66.548	33.104 32.565	58.722 58.041	1.00 40.00
ATOM	433		5 P	369	67.460 65.930	34.146	58.375	1.00 40.00
ATOM	434		SP	369 370	67.712	30.280	62.196	1.00 40.00
ATOM	435		LE	370	67.553	29.772	63.520	1.00 40.00
ATOM	436 437		LE LE	370	66.701	30.773	64.204	1.00 40.00
ATOM ATOM	438		LE	370	65.566	30.470	64.562	1.00 40.00
ATOM	439		LE	370	68.847	29.669	64.271	1.00 40.00
ATOM	440		LE	370	69.762	28.617	63.621	1.00 40.00
ATOM	441		LE	370	68.511	29.380	65.741	1.00 40.00
ATOM	442	CD1 I	LE	370	70.227	28.988	62.213	1.00 40.00
ATOM	443	N L	EU	371	67.219	32.008	64.350	1.00 40.00
MOTA	444	CA L	EU	371	66.429	33.061	64.908	1.00 40.00
ATOM	445	C L	EU	371	67.159	34.349	64.879	1.00 40.00
MOTA	446		EU	371	68.388	34.417	64.889	1.00 40.00
ATOM	447		EU.	371	65.945	32.913	66.367	1.00 40.00
MOTA	448		.EU	371	64.669	32.077	66.572 67.981	1.00 40.00
ATOM	449		EU	371	64.092	32.270 32.356	65.466	1.00 40.00
ATOM	450		EU	371 372	63.638 66.340	35.410	64.862	1.00 40.00
ATOM	451		YS YS	372	66.715	36.782	64.924	1.00 40.00
ATOM	452		YS	372	67.209	36.968	66.320	1.00 40.00
ATOM ATOM	453 454		YS	372	67.897	37.934	66.640	1.00 40.00
ATOM	455		YS	372	65.504	37.709	64.728	1.00 40.00
ATOM	456		YS	372	64.697	37.378	63.470	1.00 40.00
ATOM	457	CD I	LYS	372	65.522	37.345	62.182	1.00 40.00
ATOM	458		LYS	372	64.722	36.862	60.970	1.00 40.00
ATOM	459		LYS	372	65.633	36.538	59.850 67.196	1.00 40.00
MOTA	460		THR	373	66.817 67.096	36.028 36.060	68.601	1.00 20.00
ATOM	461		THR THR	373 373	68.570	36.057	68.880	1.00 20.00
ATOM	462 463		THR	373	68.998	36.664	69.859	1.00 20.00
ATOM ATOM	464		THR	373	66.506	34.891	69.335	1.00 20.00
ATOM	465	OG1 '		373	66.624	35.085	70.737	1.00 20.00
ATOM	466		THR	373	67.254	33.616	68.912	1.00 20.00
ATOM	467	Ν.	VAL	374	69.395	35.381	68.054	1.00 20.00
ATOM	468	CA	VAL	374	70.787	35.278	68.409	1.00 20.00
ATOM	469		VAL	374	71.534	36.552	68.122	1.00 20.00
ATOM	470		VAL	374	71.901	36.845	66.984 67.722	1.00 20.00
ATOM	471		VAL	374	71.482 70.891	34.137 32.822	68.257	1.00 20.00
ATOM	472		VAL	374 374	71.308	34.292	66.201	1.00 20.00
ATOM	473 474		VAL LYS	375	71.703	37.377	69.179	1.00 20.00
MOTA MOTA	475		LYS	375	72.455		69.171	1.00 20.00
ATOM	476	c c	LYS	375	73.934	38.356	69.276	1.00 20.00
ATOM	477		LYS	375	74.724	38.952	68.548	
ATOM	478		LYS	375	72.104			
MOTA	479	CG	LYS	375	70.652			
MOTA	480		LYS	375	70.253			
MOTA	481		LYS	375	70.283			
ATOM	482		LYS	375	70.032			
ATOM	483		GLU	376 376	74.370 75.790			
ATOM	484		GLU	376	76.248			
ATOM	485 486		GLU	376	75.456			
ATOM ATOM	487		GLU	376	76.269			1.00 20.00
ATOM	488		GLU	376	75.648			
ATOM	489		GLU	376	76.201	38.809		
ATOM	490		GLU	376	77.445			
ATOM	491		GLU	376	75.380			
ATOM	492		ILE	377	77.586			
ATOM	49:		ILE	377	78.258			
ATOM	494		ILE	377 377	79.458 80.208			
ATOM ATOM	49		ILE	377	78.72			
ATOM	49		ILE	377	77.53			1.00 20.00
ATOM	49		ILE	377	79.51		9 70.19	6 1.00 20.00

Figure 6 (continued)

ATOM	499	CD1 ILE	377	77.935	33.085	67.437	1.00 20.00
ATOM	500	i. Thr	378	79.661	34.537	72.932	1.00 20.00
ATOM	501	CA THR	378	80.705	34.958	73.820	1.00 20.00
ATOM	502	C THR	378	82.055 83.055	34.509 34.926	73.356 73.931	1.00 20.00
ATOM ATOM	503 504	O THR	378 378	80.542	34.462	75.221	1.00 20.00
ATOM	505	OG1 THR	378	81.409	35.173	76.091	1.00 20.00
ATOM	506	CG2 THR	378	80.913	32.976	75.242	1.00 20.00
ATOM	507	: GLY	379	82.134	33.568	72.394	1.00 20.00
ATOM	508	CA GLY	379	83.421 83.656	33.057 33.297	72.000 70.540	1.00 20.00
ATOM ATOM	509 510	C GLY O GLY	3 79 379	83.799	34.434	70.097	1.00 20.00
ATOM	511	I PHE	380	83.754	32.204	69.755	1.00 20.00
ATOM	512	CA PHE	380	83.990	32.339	68.346	1.00 20.00
MOTA	513	C PHE	380	82.939	31.569 30.782	67.615 68.214	1.00 20.00
ATOM	514 515	O PHE CP PHE	380 380	82.209 85.380	31.855	67.885	1.00 20.00
ATOM ATOM	516	CG PHE	380	85.531	30.395	68.158	1.00 20.00
ATOM	517	CD1 PHE	380	85.154	29.462	67.218	1.00 20.00
ATOM	518	CD2 PHE	380	86.057	29.961	69.352	1.00 20.00
ATOM	519	CE1 PHE	380	85.298 86.203	28.117 28.617	67.467 69.604	1.00 20.00
MOTA	520 521	CE2 PHE	380 380	85.823	27.693	68.663	1.00 20.00
ATOM ATOM	522	N LEU	381	82.806	31.821	66.294	1.00 20.00
ATOM	523	CA LEU	381	81.819	31.147	65.497	1.00 20.00
ATOM	524	C LET	381	82.535	30.365	64.432	1.00 20.00
ATOM	525	O LEU CB LEU	381 381	83.324 80.845	30.913	63.665 64.819	1.00 20.00
ATOM ATOM	526 527	CB LEU CG LEU	381	79.760	31.487	63.942	1.00 20.00
ATOM	528	CD1 LEU	381	78.861	30.553	64.762	1.00 20.00
ATOM	529	CD2 LEU	381	78.952	32.558	63.189	1.00 20.00
ATOM	530	N LEU	382	82.277 82.974	29.040 28.221	64.360 63.407	1.00 20.00 1.00 20.00
MOTA MOTA	531 532	CA LEU C LEU	382 382	81.989	27.496	62.539	1.00 20.00
ATOM	533	O LEU	382	81.199	26.684	63.018	1.00 20.00
ATOM	534	CB LEU	382	83.864	27.171	64.102	1.00 20.00
ATOM	535	CG LEU	382	84.655 85.636	26.245 27.027	63.164 62.283	1.00 20.00
ATOM ATOM	536 537	CD1 LEU CD2 LEU	382 382	85.343	25.128	63.965	1.00 20.00
ATOM	538	N ILE	383	82.013	27.781	61.220	1.00 20.00
ATOM	539	CA ILE	383	81.137	27.094	60.316	1.00 20.00
ATOM	540	C ILE	383	82.015 82.648	26.374 26.989	59.348 58.493	1.00 20.00
ATOM ATOM	541 542	O ILE CB ILE	383 383	80.282	28.016	59.500	1.00 20.00
ATOM	543	CG1 ILE	383	79.404	28.888	60.409	1.00 20.00
ATOM	544	CG2 ILE	383	79.482	27.156	58.505	1.00 20.00
ATOM	545	CD1 ILE	383	78.460 82.074	28.082 25.038	61.296 59.443	1.00 20.00
ATOM ATOM	546 547	N GLN CA GLN	384 384	82.915	24.339	58.526	1.00 20.00
ATOM	548	C GLN	384	82.054	23.458	57.685	1.00 20.00
ATOM	549	O GLN	384	81.117	22.832	58.177	1.00 20.00
ATOM	550	CB GLN	384	83.961	23.439	59.207 58.213	1.00 20.00
ATOM	551 552	CG GLN CD GLN	384 384	84.855 85.837	21.843	59.002	1.00 20.00
ATOM ATOM	553	OE1 GLN	384	86.450	22.308	59.961	1.00 20.00
ATOM	554	NE2 GLN	384	85.991	20.556	58.592	1.00 20.00
ATOM	555	N ALA	385	82.371 81.706	23.410 22.591	56.375 55.398	1.00 20.00
ATOM ATOM	556 557	CA ALA C ALA	385 385	80.224	22.590	55.601	1.00 20.00
ATOM	558	O ALA	385	79.661	21.620	56.106	1.00 20.00
ATOM	559	CB ALA	385	82.195	21.134	55.384	1.00 20.00
MOTA	560		386	79.551 78.121	23.693 23.719	55.231 55.326	1.00 40.00
ATOM ATOM	561 562	CA TRP	386 386	77.603	23.977	53.951	1.00 40.00
ATOM	563		386	77.704	25.086		
ATOM	564	CB TRP	386	77.603	24.843		
ATOM	565		386	76.100	25.012 24.767		1.00 40.00
ATOM	566 567		386 386	75.148 75.403			
ATOM ATOM	568		386	73.904	25.079		
ATOM	569		386	74.046	25.525	57.152	
ATOM	570	CE3 TRP	386	75.857			
ATOM	571		386	73.118 74.919			
ATOM ATOM	572 573		386 386	73.575			
ATOM	574		387	77.111	22.950	53.320	1.00 40.00
ATOM	575		387	76.494	23.181	52.046	1.00 40.00

r ==01'	576	~	PRO	387	75.105	23.656	52.308	1.00 40.00
ATOM	577		PRO	387	74.486	23.158	53.248	1.00 40.00
ATO':	578		PRO	387	76.548	21.853	51.296	1.00 40.00
ATON:			PRO	387	77.766	21.143	51.909	1.00 40.00
ATOM:	579		PRO	387	77.837	21.690	53.344	1.00 40.00
ATOM	580		GLU	388	74.578	24.599	51.507	1.00 60.00
ATOM ATOM	581		GLU	388	73.232	25.004	51.769	1.00 60.00
ATOM	582				72.859	26.053	50.778	1.00 60.00
ATON:	583		GLU	388	73.128	27.236	50.973	1.00 60.00
ATO::	584		GLU	388	73.030	25.606	53.170	1.00 60.00
ATOM	585		GLU	388 388	71.562	25.867	53.513	1.00 60.00
ATO::	586		GLU		70.889	24.525	53.757	1.00 60.00
ATO::	587		GLU	388 388	71.564	23.618	54.314	1.00 60.00
ATO::	588		GLU		69.693	24.388	53.386	1.00 60.00
ATOM	589		GLU	388	72.239	25.631	49.664	1.00 60.00
ATON	590		ASN	389 389	71.795	26.572	48.685	1.00 60.00
ATOM	591	CA	ASN		70.669	27.338	49.296	1.00 60.00
ATOM	592	C	ASN	389	70.529	28.543	49.090	1.00 60.00
MOTA	593	0	ASN	389	70.529	25.904	47.407	1.00 60.00
ATOM	594	CB	ASN	389	72.438	25.279	46.670	1.00 60.00
ATOM	595	CG	ASN	389	73.467	25.921	46.464	1.00 60.00
ATOM	596		ASN	389	72.287	23.921	46.266	1.00 60.00
ATON:	597	ND2		389 390	69.832	26.632	50.079	1.00 60.00
ATOM	598	И	ARG ARG	390	68.661	27.215	50.663	1.00 60.00
ATOM	599	CA			69.044	28.334	51.576	1.00 60.00
ATOM:	600	С	ARG	390	68.487	29.427	51.481	1.00 60.00
ATOM	601	O	ARG ARG	390 390	67.859	26.203	51.500	1.00 60.00
ATOM:	602	CB		390	67.276	25.053	50.678	1.00 60.00
ATOM:	603	CG	ARG		66.479	24.044	51.508	1.00 60.00
ATOM	604	CD	ARG	390	65.180	24.678	51.872	1.00 60.00
MOTA:	605	NE	ARG	390	64.189	23.927	52.437	1.00 60.00
MOTA	606	CZ	ARG	390		22.599	52.678	1.00 60.00
ATOM	607	NHI		390	64.394 62.995	24.504	52.761	1.00 60.00
ATOM	608	NH2	ARG	390	70.013	28.112	52.482	1.00 60.00
ATOM	609	N	THR	391		29.182	53.385	1.00 60.00
ATOM	610	CA	THR	391	70.321	29.182	53.543	1.00 60.00
ATOM	611	C	THR	391	71.800 72.554	28.398	53.154	1.00 60.00
MOTA	612	0	THR	391	69.738	29.001	54.755	1.00 60.00
ATOM:	613	CB	THR	391	69.919	30.181	55.524	1.00 60.00
ATCM	614	OG1		391	70.431	27.808	55.437	1.00 60.00
ATOM	615	CG2		391 392	72.250	30.418	54.118	1.00 60.00
ATOM	616	N	ASP ASP	392	73.648	30.631	54.330	1.00 60.00
ATOM	617	CA		392	73.787	31.156	55.719	1.00 60.00
ATOM	618	C	ASP	392	73.183	30.646	56.662	1.00 60.00
ATOM	619	0	ASP ASP	392	74.243	31.706	53.404	1.00 60.00
ATOM	620	CB	ASP	392	74.233	31.177	51.977	1.00 60.00
ATOM	621	CG OD1		392	74.199	29.930	51.808	1.00 60.00
ATOM	622	OD2		392	74.257	32.017	51.038	1.00 60.00
MOTA	623 624	N N	LEU	393	74.608	32.211	55.857	1.00 40.00
ATON:		CA	LEU	393	74.836	32.877	57.102	1.00 40.00
MOTA	625 626	C	LEU	393	73.560	33.562	57.449	1.00 40.00
ATOM	627	Ö	LEU	393	73.360	33.992	58.584	1.00 40.00
ATOM		CB	LEU	393	75.983		57.086	1.00 40.00
MOTA	628 629	CG	LEU	393	77.357	33.257	56.797	1.00 40.00
ATOM	630		LEU	393	77.402			1.00 40.00
ATOM			LEU	393	78.494		57.041	1.00 40.00
MOTA	631		HIS	394	72.640			1.00 40.00
MOTA	632 633		HIS	394	71.336		56.682	1.00 40.00
ATOM			HIS	394	70.664		57.865	1.00 40.00
ATOM	634		HIS	394	69.672		58.366	1.00 40.00
ATOM	635		HIS	394	70.393			
ATOM	636		HIS	394	70.691			
ATOM	637			394	70.133			
ATOM	638		1 HIS	394	71.506			
MOTA	639		2 HIS	394	70.635			
ATON:	640			394	71.473			
MOTA	641		2 HIS ALA	395	71.155			
MOTA	642			395 395	70.543			
ATON:	643			395	70.580		_	
ATOM:	644		ALA	395 395	69.609			
ATOM ATOM	645		ALA ALA	395	71.272			
ATOM ATOM	646		PHE	395	71.698			
ATOM ATOM	647 648			396	71.746			
MOTA			PHE		71.74			
ATOM	64 9 65 9		PHE		72.80			
ATOM ATOM	65				73.02			
ATOM ATOM	65				73.18			
VIO.	0.5			2,0				

ATOM	653	CD1 P	HE	396	72.612	32.460	64.300	1.00 20.00
	654		hZ	396	73.905	32.065	62.35€	1.00 20.00
ATOM.	655		HΞ	396	72.762	31.145	64.670	1.06 20.00
ATOM.			HC	396	74.060	30.747	62.720	1.00 20.00
ATOM:	656			396	73.487	30.285	63.891	1.00 20.00
ATOM	657		HE.		70.573	36.462	61.049	1.00 20.00
ATOM	658		LU	397		37.795	60.518	1.00 20.00
ATOM	659		LL.	397	70.594		61.592	1.00 20.00
ATOM	660		LU	397	70.975	38.784		1.00 20.00
MOTA	661		LU	397	71.603	39.794	61.287	1.00 20.00
ATOM	662		LU.	397	69.278	38.284	59.887	
ATOM	663	CG G	LJ	397	68.147	38.537	60.877	1.00 20.00
ATOM	664	CD G	LU	397	67.181	39.513	60.218	1.00 20.00
ATOM	665	OE1 G	LU	397	66.395	39.079	59.337	1.00 20.00
ATOM	666	OEC G	LU	397	67.230	40.716	60.597	1.00 20.00
ATOM	667		s::	398	70.554	38.545	62.837	1.00 20.00
ATOM	668		SN	398	70.744	39.439	63.953	1.00 20.00
ATOM	669		SN	398	72.098	39.433	64.607	1.00 20.00
ATOM	670		SN	398	72.390	40.373	65.344	1.00 20.00
MOTA	671		Siv	398	69.706		65.061	1.00 20.00
	672		ASH	398	68.421	39.874	64.550	1.00 20.00
MOTA	673	OD1 F		398	68.058		64.927	1.00 20.00
ATOM		ND2 F		398	67.725		63.637	1.00 20.00
ATOM	674		LEU	399	72.927		64.425	1.00 20.00
ATOM	675			399	74.176		65.142	1.00 20.00
ATOM	676		JEU	399	74.176		65.126	1.00 20.00
ATOM	677		PEH		75.513		64.095	1.00 20.00
MOTA	678		LEU	399	75.056		64.540	1.00 20.00
MOTA	679		LEU	399			65.257	1.00 20.00
ATOM:	680		LEU	399	76.401		66.702	1.00 20.00
ATOM	681	CD1		399	76.193			1.00 20.00
ATOM	682		LEU	399	77.320		64.438	
ATOM	683		GLU	400	74.93		66.273	1.00 20.00
ATOM	684	CA (GLU	400	75.59		66.503	1.00 20.00
ATOM	685	C	GLU	400	77.060		66.883	1.00 20.00
ATOM	686	0 1	GLU	400	77.86		66.319	1.00 20.00
MOTA	687	CB (GLU	400	74.86	42.348	67.559	1.00 20.00
ATOM	688	CG	GLU	400	74.72		68.923	1.00 20.00
ATOM	689		GLU	400	73.76	5 42.509	69.759	1.00 20.00
ATOM	690		GLU	400	72.87	8 43.169	69.156	1.00 20.00
ATOM	691		GLU	400	73.90	6 42.499	71.011	1.00 20.00
ATOM	692		ILE	401	77.46	6 40.569	67.842	1.00 20.00
ATOM	693		ILE	401	78.84	1 40.653	68.276	1.00 20.00
	694		ILE	401	79.35		68.644	1.00 20.00
ATOM ATOM	695		ILE	401	78.60		69.104	1.00 20.00
	696		ILE	401	79.00		69.498	1.00 20.00
ATOM	697		ILE	401	78.51		69.227	1.00 20.00
ATOM	698		ILE	401	80.47			1.00 20.00
ATOM	699		ILE	401	78.37			1.00 20.00
ATOM		N CDI	ILE	402	80.67	_		1.00 20.00
ATOM	700		ILE	402	81.34			1.00 20.00
ATOM	701 702	C	ILE	402	82.48			1.00 20.00
ATOM		0	ILE	402	83.52			1.00 20.00
ATOM	703			402	81.93			1.00 20.00
ATOM	704	CB	ILE	402	80.82			1.00 20.00
ATOM	705	CG1	ILE	402	82.75			
ATOM	706			402	81.36			
ATOM	707				82.34			
MOTA	708		ARG	403	83.24			
ATOM	709		ARG	403	84.69			
ATOM	710		ARG	403				
ATOM	711		ARG	403	85.59			
MOTA	712		ARG	403	82.83			
MOTA	713	CG	ARG	403	81.40			
ATOM	714	CD	ARG	403	81.0			
ATOM	715	, NE	ARG	403	80.9			
ATOM	716	CZ.	ARG	403	82.1			
ATOM:	717	NH1	ARG	403	83.2			
ATOM	718		ARG	403	82.0			
ATOM	719		GLY	404	84.8			
ATOM	720		GLY	404	86.2			
ATOM	721		GLY	404	86.8			
ATOM	722		GLY	404	88.1			
ATOM	72:		ARG	405	86.0			
ATOM	72		ARG	405	86.7	00 35.67		
ATOM	729		ARG	405	87.6		2 74.670	
MOTA	.72		ARG	405	88.7		9 75.184	
ATOM	72		ARG	405	85.6			
ATOM	72		ARG	405	84.7		4 76.364	
ATOM	72		ARG	405	85.2		4 77.654	4 1.00 20.00
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ATO:1	730	NE ARG	405	86.553	37.843	77.350	1.00 20.00
ATOM	731	CZ ARG	405	87.191	38.551	78.326	1.00 20.00
ATCM	732	NHI ARG	405	86.659	38.613	79.582	1.00 20.00
ATOM ATOM	733 734	NH2 ARG N THR	405 406	88.362 87.144	39.196 33.483	78.049 73.930	1.00 20.00
ATOM	735	CA THR	406	87.965	32.345	73.649	1.00 20.00
ATOM	736	C THR	406	88.001	32.248	72.162	1.00 20.00
ATOM	737	O THR	406	86.972	32.378	71.504	1.00 20.00
ATOM:	738	CB THR	406	87.399 87.233	31.054	74.160 75.569	1.00 20.00
MOTA MOTA	739 740	OG1 THR	406 406	88.359	31.114 29.913	73.786	1.00 20.00
ATOM	741	N LYS	407	89.193	32.019	71.586	1.00 20.00
MOTA	742	CA LYS	407	89.281	31.979	70.157	1.00 20.00
:1OTA	743	C LYS	407	89.797	30.645	69.747	1.00 20.00
ATOM ATOM	744 745	O LYS	407 407	90.399 90.238	29.926 33.037	70.543 69.581	1.00 20.00 1.00 20.00
ATOM	746	CG LYS	407	91.679	32.884	70.077	1.00 20.00
ATOM	747	CD LYS	407	91.825	33.046	71.593	1.00 20.00
ATOM	748	CE LYS	407	93.248	32.835	72.110	1.00 20.00
ATOM	749	NZ LYS	407	93.280	33.013	73.580	1.00 20.00
ATOM ATOM	750 751	N GLN CA GLN	408 408	89.538 90.096	30.258 29.017	68.481 68.051	1.00 20.00
ATOM	752	C GLN	408	91.483	29.349	67.630	1.00 20.00
ATOM	753	O GLN	408	91.763	30.501	67.296	1.00 20.00
ATOM	754	CB GLN	408	89.396	28.341	66.863	1.00 20.00
ATOM	755	CG GLN	408 408	89.499 89.073	29.103 28.124	65.547 64.465	1.00 20.00
ATOM ATOM	756 757	CD GLN OE1 GLN	408	88.607	28.513	63.398	1.00 20.00
ATOM	758	NE2 GLN	408	89.245	26.805	64.747	1.00 20.00
ATOM	759	N HIS	409	92.375	28.340	67.629	1.00 20.00
ATOM	760	CA HIS	409	93.764	28.549	67.341	1.00 20.00
ATOM ATOM	761 762	C HIS	409 409	93.872 93.018	29.295 29.181	66.062 65.186	1.00 20.00
ATOM	763	CB HIS	409	94.579	27.249	67.237	1.00 20.00
ATOM	764	CG HIS	409	94.658	26.518	68.547	1.00 20.00
ATOM	765	ND1 HIS	409	93.716	25.615	68.986	1.00 20.00
MOTA	766 767	CD2 HIS	409 409	95.598 94.127	26.582 25.180	69.531 70.204	1.00 20.00
ATOM ATOM	768	NE2 HIS	409	95.263	25.739	70.577	1.00 20.00
ATOM	769	N GLY	410	94.929	30.113	65.945	1.00 20.00
ATOM	770	CA GLY	410	95.035	30.978	64.815	1.00 20.00
ATOM	771	C GLY	410 410	94.356 94.314	32.221 33.233	65.273 64.575	1.00 20.00
ATOM ATOM	772 773	O GLY N GLN	411	93.822	32.149	66.508	1.00 20.00
ATOM	774	CA GLN	411	93.134	33.238	67.131	1.00 20.00
MOTA	775	C GLN	411	92.065	33.728	66.212	1.00 20.00
ATOM	776	O GLN	411	92.036	34.909 34.416	65.870 67.478	1.00 20.00
ATOM ATOM	777 877	CB GLN CG GLN	411 411	94.060 95.138	34.061	68.503	1.00 20.00
ATOM	779	CD GLN	411	95.978	35.307	68.753	1.00 20.00
MOTA	780	OE1 GLN	411	96.291	35.640	69.895	1.00 20.00
ATOM	781	NE2 GLN	411	96.362	36.010	67.656 65.791	1.00 20.00
ATOM ATOM	782 783	N PHE	412 412	91.150 90.107	32.832 33.253	64.904	1.00 20.00
ATOM	784	C PHE	412	88.828	33.358	65.669	1.00 20.00
ATOM	785	O PHE	412	88.440	32.453	66.404	1.00 20.00
ATOM	786	CB PHE	412	89.843	32.287	63.737	1.00 20.00
ATOM ATOM	787 788	CG PHE	412 412	91.064 91.356	32.280 33.347	62.885 62.070	1.00 20.00
ATOM	789	CD1 PHE	412	91.911	31.197	62.892	1.00 20.00
ATOM	790	CE1 PHE	412	92.482	33.338	61.279	1.00 20.00
ATOM	791	CE2 PHE	412	93.037	31.184	62.103	1.00 20.00
ATOM	792	CZ PHE	412	93.326 88.193	32.256 34.538	61.296	1.00 20.00
ATOM ATOM	793 794	N SER CA SER	413 413	86.914	34.839	65.568 66.139	1.00 20.00
ATOM	795	C SER	413	85.866	34.220	65.282	1.00 20.00
MOTA	796	O SER	413	84.871	33.694	65.779	1.00 20.00
ATOM	797	CB SER	413	86.618	36.342	66.092	1.00 20.00
ATOM ATOM	798 799	OG SER N LEU	413 414	87.743 86.058	37.068 34.318	66.556 63.953	1.00 20.00
ATOM	800	CA LEU	414	85.098	33.828	63.009	1.00 20.00
ATOM	801	C LEU	414	85.822	33.010	61.998	1.00 20.00
ATOM	802	O LEU	414	86.615	33.527	61.212	1.00 20.00
ATOM	803	CB LEU	414 414	84.395 83.351	34.969 34.505	62.249 61.219	1.00 20.00
ATOM ATOM	804 805	CG LEU	414	82.172	33.785	61.890	1.00 20.00
ATOM	806	CD2 LEU	414	82.913	35.673	60.318	1.00 20.00

Figure 6 (continued)

n.m.o.v.	807	N ,	ALA	415	85.568	31.694	61.983	1.00 20.00
ATOM ATOM	808		ALA	415	86.220	30.917	60.979	1.00 20.00
ATOM	809		ALA	415	85.159	30.337	60.115	1.00 20.00
ATOM	810		ALA	415	84.230	29.704	60.610	1.00 20.00
ATOM	811		ALA	415	87.039	29.744	61.526	1.00 20.00
ATOM	812		VAL	416	85.251	30.584	58.794	1.00 20.00
ATOM	813		VAL	416	84.332	29.982	57.878	1.00 20.00
ATOM	814		VAL	410	85.159	29.237	56.878	1.00 20.00
ATOM	815		VAL	416	85.846	29.824	56.045	1.00 20.00
ATOM	816		VAL	416	83.440	30.973	57.174	1.00 20.00
ATOM	817		VAL	416	82.494	31.577	58.227	1.00 20.00
ATOM	818		VAL	416	84.296	32.038	56.465	1.00 20.00
ATOM	819		VAL	417	85.121	27.894	56.935	1.00 20.00
ATOM	820		VAL	417	85.951	27.162	56.027	1.00 20.00
ATOM	821		VAL	417	85.085	26.285	55.183	1.00 20.00
ATOM	822		VAL	417	84.125	25.692	55.673	1.00 20.00
ATOM	823	CB	VAL	417	86.949	26.276	56.717	1.00 20.00
ATOM	824	CG1	VAL	417	87.911	27.163	57.525	1.00 20.00
MOTA	825	CG2	JAV	417	86.189	25.247	57.571	1.00 20.00
ATOM	826	N	SER	418	85.433	26.185	53.881	1.00 20.00
ATOM	827	CA	SER	418	84.746	25.369	52.915	1.00 20.00
ATOM	828	С	SER	418	83.262	25.480	53.085	1.00 20.00
MOTA	829	0	SER	418	82.659	24.722	53.844	1.00 20.00
MOTA	830	CB	SER	418	85.129	23.878	52.994	1.00 20.00
ATOM	831	OG	SER	418	86.506	23.711	52.690	1.00 20.00
ATOM	832	N	LEU	419	82.626	26.440	52.377	1.00 40.00
ATOM	833	CA	LEU	419	81.198	26.607	52.499	1.00 40.00
MOTA	834	С	LEU	419	80.599	26.821	51.129	1.00 40.00
ATOM	835	0	LEU	419	81.324	26.980	50.149	1.00 40.00
MOTA	836	CB	LEU	419	80.813	27.822	53.355	1.00 40.00
ATOM	837	CG	LEU	419	81.278	27.699	54.818	1.00 40.00
ATOM	838	CD1		419	80.866	28.927	55.644	1.00 40.00
ATOM	839		LEU	419	80.810	26.376	55.444 51.015	1.00 40.00
ATOM	840	N	ASN	420	79.246	26.799	49.755	1.00 40.00
MOTA	841	CA	ASN	420	78.582	27.032		1.00 40.00
ATOM	842	C	ASN	420	77.866	28.337	49.879	1.00 40.00
MOTA	843	0_	ASN	420	76.665	28.429	49.637 49.404	1.00 40.00
ATOM	844	CB	ASN	420	77.537	25.962 24.676	49.081	1.00 40.00
ATOM	845	CG.	ASN	420	78.284 77.826	23.580	49.398	1.00 40.00
ATOM	846		ASN	420	79.471	24.810	48.432	1.00 40.00
MOTA	847	ND2	ASN ILE	420 421	78.599	29.408	50.228	1.00 40.00
ATOM	848	N CA	ILE	421	77.930	30.654	50.448	1.00 40.00
MOTA	849 850	C	ILE	421	78.329	31.647	49.411	1.00 40.00
MOTA MOTA	851	ō	ILE	421	79.478	31.695	48.975	1.00 40.00
ATOM	852	CB	ILE	421	78.234	31.277	51.781	1.00 40.00
ATOM	853	CG1		421	79.727	31.638	51.901	1.00 40.00
ATOM	854	CG2		421	77.741	30.314	52.872	1.00 40.00
ATOM	855	CD1		421	80.670	30.435	51.849	1.00 40.00
ATOM	856	N	THR	422	77.330	32.426	48.948	1.00 20.00
MOTA	857	CA	THR	422	77.505	33.504	48.023	1.00 20.00
ATOM	858	С	THR	422	78.110	34.676	48.736	1.00 20.00
ATOM	859	0	THR	422	78.923	35.399	48.167	1.00 20.00
ATOM	860	CB	THR	422	76.212	33.956	47.406	1.00 20.00
ATOM	861	OG1	THR	422	76.466	34.883	46.361	1.00 20.00
ATOM	862	CG2	THR	422	75.333	34.600	48.491	1.00 20.00
ATOM	863	N	SER	423	77.702		49.999	1.00 20.00
ATOM	864	CA	SER	423	78.239		50.731	1.00 20.00
ATOM	865	С	SER	423	78.036		52.185	1.00 20.00
MOTA	866	0	SER	423	77.447		52.540	
ATOM	867	CB	SER	423	77.550		50.422	1.00 20.00
ATOM	868		SER	423	77.807		49.078	1.00 20.00
ATOM	869		LEU	424	78.604		53.062	
ATOM	870	CA	LEU	424	78.421		54.481	
MOTA	871		LEU	424	77.017		54.874	1.00 20.00
MOTA	872		LEU	424	76.307		55.489	
ATOM	873		LEU	424	79.396		55.300	
ATOM	874		LEU	424	80.867		55.136	
ATOM	875		LEU	424	81.356			
ATOM	876		2 LEU	424	81.768			
ATOM	877		GLY	425	76.546 75.185			
ATOM	878		GLY	425 425	75.185			
ATOM	879		GLY	425	73.901			
ATOM	880 881		GLY LEU	426	76.139			
ATOM ATOM	882			426	76.27			1.00 20.00
ATOM	883		LEU	426	75.96			
	300	-						

n mont	984	o L	EĽ.	426	76.454	40.879	59.856	1.00 20.00
ATOM ATOM	885		Εi	426	77.665	38.670	59.065	1.00 20.00
ATOM	856		EU.	426	77.984	37.166	59.134	1.00 20.00
ATOM.	297		EU.	426	79.351	36.919	59.793	1.00 20.00
ATOM	888		.EU	426	76.845	36.388	59.817	1.00 20.00
ATOM	889		RG	427	75.213	41.138	58.004	1.00 20.00
ATOM.			RG	427	75.050	42.570	58.084	1.00 20.00
ATOM	895 895		RG	427	74.921	43.120	59.484	1.00 20.00
ATOM	892		RG	427	75.357	44.244	59.721	1.00 20.00
MOTA	893		RG	427	73.819	43.068	57.306	1.00 20.00
MOTA	894		RG	427	72.502	42.478	57.815	1.00 20.00
MOTA	895		RG	427	71.259	43.106	57.181	1.00 20.00
MOTA	896		RG	427	71.144	44.495	57.707	1.00 20.00
ATOM ATOM	897		ARG	427	70.482	44.719	59.880	1.00 20.00
ATOM	898		ARG	427	69.939	43.671	59.566	1.00 20.00
ATOM	899		ARG	427	70.362	45.988	59.367	1.00 20.00
ATOM	900		ER	428	74.298	42.408	60.435	1.00 20.00
ATOM	901		SER	428	74.149	42.909	61.783	1.00 20.00
ATOM	902		SER	428	75.460	42.961	62.532	1.00 20.00
ATOM	903		ER	428	75.575	43.673	63.528	1.00 20.00
ATOM	904		SER	428	73.175	42.073	62.631	1.00 20.00
ATOM	905		SER	428	71.852	42.215	62.138	1.00 20.00
ATOM	906		LEU	429	76.467	42.179	62.104	1.00 20.00
ATOM	967		LEU	429	77.715	42.012	62.799	1.00 20.00
ATOM	908		LEU	429	78.461	43.309	62.909	1.00 20.00
ATOM	909		LEU	429	79.082	43.771	61.954	1.00 20.00
ATOM	910		LEU	429	78.615	40.974	62.104	1.00 20.00
ATOM	911		LEU	429	79.973	40.719	62.780	1.00 20.00
ATOM	912	CD1		429	79.789	40.131	64.184	1.00 20.00
ATOM	913		LEU	429	80.876	39.845	61.889	1.00 20.00
ATOM	914		LYS	430	78.337	43.962	64.085	1.00 20.00
ATOM	915		LYS	430	78.999	45.194	64.413	1.00 20.00
ATOM	916		LYS	430	80.437	45.016	64.804	1.00 20.00
ATOM	917		LYS	430	81.300	45.741	64.316	1.00 20.00
ATOM	918		LYS	430	78.307	45.927	65.569	1.00 20.00
MOTA	919		LYS	430	76.905	46.414	65.208	1.00 20.00
ATOM	920		LYS	430	76.894	47.386	64.028	1.00 20.00
ATOM	921		LYS	430	75.571	48.138	63.871	1.00 20.00
ATOM	922		LYS	430	74.464	47.180	63.655	1.00 20.00
ATOM	923		GLU	431	80.758	44.056	65.702	1.00 20.00
ATOM	924		GLU	431	82.132	44.025	66.118	1.00 20.00
ATOM	925		GLU	431	82.509	42.685	66.660	1.00 20.00
MOTA	926		GLU	431	81.699	41.977	67.258	1.00 20.00
ATOM	927	CB	GLU	431	82.446	45.028	67.241	1.00 20.00
ATOM	928	CG	GLU	431	81.668	44.740	68.528	1.00 20.00
ATOM	929	CD	GLU	431	82.096	45.745	69.589	1.00 20.00
MOTA	930	OE1	GLU	431	82.225	46.950	69.246	1.00 20.00
ATOM	931	OE2	GLU	431	82.303	45.317	70.756	1.00 20.00
ATOM	932	11	ILE	432	83.788	42.315	66.444	1.00 20.00
ATOM	933	CA	ILE	432	84.335	41.119	67.001	1.00 20.00
ATOM	934	С	ILE	432	85.346	41.587	67.993	1.00 20.00
ATOM	935	0	ILE	432	86.499	41.848	67.665	1.00 20.00
ATOM	936	CB	ILE	432	84.984	40.225	65.983	1.00 20.00
ATOM	937	CG1	ILE	432	83.908	39.705	65.013	1.00 20.00
ATOM	938	CG2	ILE	432	85.746	39.111	66.717	1.00 20.00
ATOM	939	CD1	ILE	432	84.454	38.933	63.813	1.00 20.00
ATOM	940	N	SER	433	84.939	41.581	69.269	1.00 20.00
MOTA	941	CA	SER	433	85.652	42.184	70.355	1.00 20.00
ATOM	942	С	SER	433	87.089	41.763	70.341	1.00 20.00
ATOM	943	O	SER	433	87.962	42.579	70.631	1.00 20.00
ATOM	944	CB	SER	433	85.041	41.785	71.709	1.00 20.00
ATOM	945	OG	SER	433	85.756	42.390	72.772	1.00 20.00
ATOM	946		ASP	434	87.398	40.491	70.036	1.00 20.00
ATOM	947	CA	ASP	434	88.792	40.137	70.012	1.00 20.00
ATOM	948		ASP	434	88.986			
ATOM	949		ASP	434	88.073			
ATOM	950		ASP	434	89.345			
MOTA	951		ASP	434	89.544			
ATOM	952			434	90.112			
ATOM	953		ASP	434	89.131			
ATOM	954		GLY	435	90.201			
MOTA	955		GLY	435	90.509			
ATOM	956		GLY	435	90.299			
ATOM	957		GLY	435	89.702			
ATOM	958		ASP	436	90.797			
ATOM	959		ASP	436	90.748			
ATOM	960) C	ASP	436	89.743	, 50.994	63.148	1.00 20.00

ATOM	961	0	ASP	436	88.975	36.311	63.820	1.00 20.00
ATOM	962	СВ	ASP	436	92.099	37.626	63.148	1.00 20.00
ATOM	963	CG	ASP	436	93.063	38.494	63.935	1.00 20.00
ATOM	964		ASP	436	92.854	39.736	63.973	1.00 20.00
ATOM.	965	002	ASP	436	94.C27 89.705	37.924 36.998	64.513 61.799	1.00 20.00
MOTA	966	N	VAL VAL	437 437	88.778	36.153	61.094	1.00 20.00
ATOM ATOM	967 968	CA C	VAL	437	89.533	35.336	60.083	1.00 20.00
MOTA	969	o	VAL	437	90.631	35.701	59.673	1.00 20.00
ATOM	970	CB	VAL	437	87.706	36.907	60.361	1.00 20.00
ATOM	971		VAL	437	88.359	37.745	59.251	1.00 20.00
ATOM	972	CG2	VAL	437	86.664	35.904	59.841 59.687	1.00 20.00
ATOM:	973	N	ILE	438 438	88.977 89.627	34.168 33.355	58.695	1.00 20.00
ATOM ATOM	974 975	CA C	ILE	438	88.610	32.924	57.684	1.00 20.00
ATOM	976	0	ILE	438	87.763	32.072	57.947	1.00 20.00
ATOM	977	CB	ILE	438	90.289	32.125	59.272	1.00 20.00
ATOM	978	CG1		438	90.967	31.298	58.166	1.00 20.00
ATOM	979	CG2	ILE	438	89,263	31.352	60.116 57.542	1.00 20.00
ATOM	980	CD1	ILE	438 439	92.186 88.661	31.974 33.500	56.470	1.00 20.00
MOTA MOTA	981 982	N CA	ILE	439	87.704	33.084	55.485	1.00 20.00
ATOM	983	Ċ.	ILE	439	88.464	32.338	54.433	1.00 20.00
ATOM	984	0	ILE	439	89.074	32.941	53.551	1.00 20.00
ATOM	985	CB	ILE	439	87.012	34.237	54.821	1.00 20.00
ATOM	986	CG1		439	86.286	35.093	55.872	1.00 20.00 1.00 20.00
ATOM	987	CG2		439	86.072 85.804	33.677 36.437	53.742 55.330	1.00 20.00
ATOM	988 989	CD1 N	ILE SER	439 440	88.423	30.992	54.478	1.00 20.00
ATOM ATOM	990	CA	SER	440	89.229	30.270	53.536	1.00 20.00
ATOM	991	C	SER	440	88.437	29.227	52.811	1.00 20.00
MOTA	992	0	SER	440	87.424	28.723	53.291	1.00 20.00
ATOM	993	CB	SER	440	90.421	29.548	54.186	1.00 20.00 1.00 20.00
ATOM	994	OG	SER	440 441	89.955 88.909	28.529 28.903	55.058 51.590	1.00 20.00
ATOM ATOM	995 996	N CA	GLY GLY	441	88.382	27.844	50.778	1.00 20.00
ATOM	997	C	GLY	441	86.915	28.009	50.546	1.00 20.00
ATOM	998	0	GLY	441	86.135	27.138	50.929	1.00 20.00
ATOM	999	N	ASN	442	86.488	29.137	49.944	1.00 20.00
ATOM	1000	CA	ASN	442	85.093	29.274 29.741	49.632 48.213	1.00 20.00
ATOM	1001 1002	0	ASN ASN	442 442	85.005 84.894	30.937	47.952	1.00 20.00
ATOM ATOM	1002	СВ	ASN	442	84.401	30.319	50.520	1.00 20.00
ATOM	1004	CG	ASN	442	84.451	29.776	51.941	1.00 20.00
ATOM	1005		. ASN	442	83.812	28.776	52.260	1.00 20.00
MOTA	1006		2 ASN	442	85.252	30.441 28.795	52.817 47.258	1.00 20.00
MOTA	1007	N	LYS LYS	443 443	84.937 85.043	29.139	45.867	1.00 20.00
ATOM ATOM	1008 1009	CA C	LYS	443	84.022	30.166	45.477	1.00 20.00
ATOM	1010	Õ	LYS	443	84.353	31.140	44.806	1.00 20.00
ATOM	1011	СВ	LYS	443	84.851	27.932	44.933	1.00 20.00
ATOM	1012	CG	LYS	443	84.961	28.283	43.446	1.00 20.00
MOTA	1013	CD	LYS	443	86.362	28.724	43.015	1.00 20.00
MOTA	1014	CE	LYS	443 443	86.715 88.081	30.148 30.495	43.450 42.995	1.00 20.00
ATOM ATOM	1015 1016	NZ N	LYS ASN	444	82.761	29.968	45.891	1.00 20.00
ATOM	1017	CA	ASN	444	81.633	30.792	45.550	1.00 20.00
ATOM	1018	C	ASN	444	81.579	32.096	46.295	1.00 20.00
ATOM	1019	0	ASN	444	80.856	32.998	45.877	1.00 20.00
MOTA	1020	CB	ASN	444	80.292	30.080	45.800 44.830	1.00 20.00
ATOM	1021	CG	ASN	444 444	80.205 80.454	28.911 29.057	43.635	1.00 20.00
ATOM ATOM	1022 1023		1 ASN 2 ASN	444	79.848	27.710	45.358	1.00 20.00
ATOM	1024	N	LEU	445	82.270	32.229	47.442	1.00 20.00
ATOM	1025			445	82.091	33.401	48.260	
ATOM	1026		LEU	445	82.414	34.664	47.523	
MOTA	1027		LEU	445	83.490	34.830	46.952 49.560	
ATOM	1028			445 445	82.912 82.731	33.364 34.599	50.458	
ATOM ATOM	1029		1 LEU	445	81.271	34.737	50.921	
ATOM	1031		2 LEU	445	83.718		51.634	1.00 20.00
ATOM	1032	. N	CYS	446	81.451			
ATOM	1033			446	81.490			
ATOM	1034		CYS	446 446	91.246 81.101			
MOTA MOTA	1035		CYS CYS	446	80.329			
ATOM	1037			446	80.593			

Figure 6 (continued)

ATOM	1038		TYR	447	81.208	39.193	47.621	1.00 20.00
ATOM	1039		TYR	447	80.942	40.283	49.514	1.00 20.00
ATOM	1040		TYR	447	81.790	40.152	49.734	1.00 20.00
ATOM	1041		TYR	447	81.303	40.330	50.848	1.00 20.00
MOTA	1042	CE	TYR	447	79.468	40.423	48.929	1.00 20.00
ATOM	1043		AYT.	447	78.752	40.916	47.723	1.00 20.00
ATOM	1044		TYK	447	78.867	42.231	47.339	1.00 20.00
ATOM.	1045		TYR	447	77.964	40.074	46.980	1.00 20.00
ATOM	1046		TYĀ	447	78.211	42.699	46.224	1.00 20.00
ATOM	1047		TYR	447	77.306	40.535	45.866 45.484	1.00 20.00
ATOM	1048		TYR TYP	447	77.428 76.749	41.847	44.338	1.00 20.00
ATOM	1049		TYR ALA	448	83.035	39.671	49.544	1.00 20.00
ATOM ATOM	1050 1051		ALA	448	84.047	39.625	50.560	1.00 20.00
ATOM	1052		ALA	448	84.817	40.914	50.607	1.00 20.00
ATOM	1053		ALA	448	85.147	41.427	51.675	1.00 20.00
ATOM	1054		ALA	448	85.067	38.499	50.319	1.00 20.00
ATOM	1055		ASN	449	85.149	41.438	49.409	1.00 20.00
ATOM	1056	CA	ASN	449	85.956	42.611	49.186	1.00 20.00
ATOM	1057	C	ASN	449	85.186	43.841	49.539	1.00 20.00
MOTA	1058	0	ASN	449	85.757	44.898	49.794	1.00 20.00
ATOM	1059	CB	NZA	449	86.414	42.724	47.726	1.00 20.00
ATOM	1060	CG	ASN	449	87.368	41.562	47.496	1.00 20.00
ATOM	1061	ODl		449	86.976	40.516	46.981 47.901	1.00 20.00
ATOM	1062		ASII	449 450	88.653 83.855	41.744 43.710	49.505	1.00 20.00
ATOM	1063	C 2	THR THR	450	82.848	44.704	49.737	1.00 20.00
ATOM ATOM	1064 1065	CA C	THR	450	82.824	45.181	51.165	1.00 20.00
ATOM	1066	Ö	THR	450	82.274	46.249	51.425	1.00 20.00
ATOM	1067	СВ	THR	450	81.487	44.148	49.424	1.00 20.00
ATOM	1068	OG1	THR	450	81.272	42.971	50.188	1.00 20.00
ATOM	1069	CG2	THR	450	81.405	43.804	47.930	1.00 20.00
ATOM	1070	N	ILE	451	83.354	44.407	52.139	1.00 20.00
ATOM	1071	CA	ILE	451	83,195	44.795	53.519	1.00 20.00
MOTA	1072	С	ILE	451	84.451	45.383	54.096	1.00 20.00
MOTA	1073	0	ILE	451	85.564	44.986	53.756	1.00 20.00
ATOM	1074	CB	ILE	451	82.814	43.642	54.403 53.944	1.00 20.00
MOTA	1075	CG1	ILE	451 451	81.477 82.796	43.039 44.140	55.858	1.00 20.00
ATOM ATOM	1076 1077	CG2 CD1	ILE	451	80.310	44.022	54.008	1.00 20.00
ATOM	1078	N	ASN	452	84.287	46.381	54.997	1.00 20.00
ATOM	1079	CA	ASN	452	85.430	46.946	55.651	1.00 20.00
ATOM	1080	c	ASN	452	85.537	46.312	57.010	1.00 20.00
ATOM	1081	0	ASN	452	84.909	46.715	57.988	1.00 20.00
ATOM	1082	CB	ASN	452	85.415	48.488	55.772	1.00 20.00
ATOM	1083	CG	ASN	452	84.231	48.971	56.598	1.00 20.00
ATOM	1084	OD1		452	83.264	48.244	56.818	1.00 20.00
ATOM	1085	ND2		452	84.303	50.246	57.063 57.094	1.00 20.00
ATOM	1086	N.	TRP	453 453	86.388 86.577	45.281 44.505	58.283	1.00 20.00
ATOM	1087 1088	CA C	TRP TRP	453	87.207	45.377	59.309	1.00 20.00
MOTA MOTA	1089	0	TRP	453	87.187	45.058	60.494	1.00 20.00
ATOM	1090	CB	TRP	453	87.466	43.272	58.049	1.00 20.00
ATOM	1091	CG	TRP	453	86.841	42.273	57.099	1.00 20.00
ATOM	1092		TRP	453	87.149	42.011	55.795	1.00 20.00
ATOM	1093	CD2	TRP	453	85.737	41.418	57.433	1.00 20.00
ATOM	1094	NE1	TRP	453	86.309	41.042	55.299	1.00 20.00
ATOM	1095	CE2		453	85.434	40.669	56.296	1.00 20.00
MOTA	1096		TRP	453	85.027	41.273	58.590	1.00 20.00
ATOM	1097		TRP	453	84.414	39.760	56.303	1.00 20.00
ATOM	1098	CZ3		453	84.004 83.704	40.350 39.608	58.596 57.474	1.00 20.00
ATOM	1099	CH2		453 454	87.824	46.487	58.878	1.00 20.00
ATOM ATOM	1100 1101	N CA	LYS LYS	454	88.483	47.362	59.799	1.00 20.00
ATOM	1102	C	LYS	454	87.483	47.842	60.798	1.00 20.00
ATOM	1103	Ö	LYS	454	87.787	47.939	61.986	1.00 20.00
ATOM	1104	СВ	LYS	454	89.063	48.610	59.116	1.00 20.00
ATOM	1105	CG	LYS	454	90.195	48.302	58.136	1.00 20.00
MOTA	1106	CD	LYS	454	90.542	49.475	57.217	1.00 20.00
ATOM	1107	CE	LYS	454	91.674	49.169	56.236	1.00 20.00
MOTA	1108		LYS	454	91.903	50.330	55.347	1.00 20.00
MOTA	1109		LYS	455	86.261	48.173	60.343	1.00 20.00
ATOM	1110		LYS	455	85.279		61.258 62.247	1.00 20.00
ATOM	1111	C	LYS	455 455	84.933 84.895			
ATOM ATOM	1112 1113		LYS LYS	455	83.975			
ATOM	1113		LYS	455	83.005		61.476	
	7					-		

ATO::	1115	CD .	LYS	455	81.875	50.551	60.724	1.00 20.00
ATOM:	1116		LYS	455	80.957	51.378	61.626	1.00 20.00
ATOM	1117		LYS	455	80.221		62.555	1.00 20.00
ATOM	1118	N	LEU	456	84.673		61.758	1.00 20.00
ATOY	1119		LEU	456	84.270	45.300	62.627	1.00 20.00
ATOM	1120		LEU	456	85.381	44.885	63.545	1.00 20.00
ATO::	1121		LEU	456	85.186	44.757	64.752 61.859	1.00 20.00
ATOM	1122		LEU	456	83.834 82.556	44.040	61.021	1.00 20.00
ATCM	1123		LEU	456 456	82.773	45.256	59.896	1.00 20.00
ATOM	1124 1125		LEU	456	82.016	42.887	60.510	1.00 20.00
MOTA MOTA	1126	N	PHE	457	86.594	44.675	62.996	1.00 20.00
ATOM	1127	CA	PHE	457	87.692	44.185	63.780	1.00 20.00
ATO::	1128	С	PHE	457	89.572	45.337	64.119	1.00 20.00
ATOM:	1129	0	PHE	457	89.281	45.859	63.260	1.00 20.00
ATOM:	1130	CB	PHE	457	88.622	43.229	63.012	1.00 20.00
MOTA	1131	CG	PHE	457	87.894	41.992	62.626	1.00 20.00
MOTA	1132	CD1	PHE	457	87.862	40.906	63.468	1.00 20.00
MOTA	1133	CD2	PHE	457	87.249	41.919 39.761	63.103	1.00 20.00
ATOM	1134	CE1	PHE	457 457	87.195 86.580	40.777	61.046	1.00 20.00
ATOM	1135 1136	CE2	PHE PHE	457	86.552	39.695	61.891	1.00 20.00
ATOM ATOM	1137	N	GLY	458	88.516	45.793	65.378	1.00 40.00
ATOM	1138	CA	GLY	458	89.413	46.825	65.797	1.00 40.00
ATOM	1139	С	GLY	458	90.750	46.212	66.045	1.00 40.00
MOTA	1140	0	GLY	458	91.788	46.777	65.701	1.00 40.00
ATOM:	1141	N	THR	459	90.738	44.999	66.632	1.00 40.00
ATOM	1142	CA	THR	459	91.936	44.364	67.094	1.00 40.00
MOTA	1143	С	THR	459	92.968	44.320 44.855	66.017 66.195	1.00 40.00
ATOM	1144	0	THR	459 459	94.062 91.699	42.973	67.625	1.00 40.00
ATOM	1145	CB OG1	THR THR	459	92.918	42.422	68.100	1.00 40.00
ATOM ATOM	1146 1147	CG2	THR	459	91.087	42.085	66.529	1.00 40.00
ATOM	1148	N	SER	460	92.668	43.707	64.857	1.00 40.00
ATOM	1149	CA	SER	460	93.716	43.681	63.885	1.00 40.00
ATOM	1150	С	SER	460	93.211	43.055	62.631	1.00 40.00
ATOM	1151	0	SER	460	93.008	41.845	62.562	1.00 40.00
ATOM	1152	CB	SER	460	94.946	42.869	64.325 63.306	1.00 40.00
MOTA	1153	QG 	SER	460	95.932 92.988	42.890 43.894	61.606	1.00 20.00
MOTA	1154	N	GLY GLY	461 461	92.549	43.439	60.323	1.00 20.00
ATOM ATOM	1155 1156	CA C	GLY	461	93.676	42.723	59.644	1.00 20.00
ATOM	1157	Ö	GLY	461	93.459	41.809	58.850	1.00 20.00
ATOM	1158	N	GLN	462	94.924	43.132	59.934	1.00 20.00
ATOM	1159	CA	GLN	462	96.068	42.589	59.258	1.00 20.00
MOTA	1160	С	GLN	462	96.146	41.114	59.504	1.00 20.00
ATOM	1161	0	GLN	462	96.552	40.356	58.625 59.729	1.00 20.00
ATOM	1162	CB	GLN	462	97.398 98.619	42.625	59.012	1.00 20.00
ATOM	1163	CG CD	GLN GLN	462 462	99.864	43.306	59.562	1.00 20.00
MOTA MOTA	1164 1165	OEI		462	100.784	42.650	60.044	1.00 20.00
ATOM	1166	NE2		462	99.901	44.663	59.474	1.00 20.00
ATOM	1167	N	LYS	463	95.759	40.681	60.713	1.00 20.00
MOTA	1168	CA	LYS	463	95.867	39.310	61.128	1.00 20.00
ATOM	1169	C	LYS	463	94.938	38.418	60.35/	1.00 20.00
ATOM	1170	0_	LYS	463	95.195		60.242 62.625	1.00 20.00
ATOM	1171	CB	LYS	463	95.609 96.582		63.511	1.00 20.00
ATOM	1172	CG	LYS LYS	463 463	98.052		63.269	1.00 20.00
ATOM ATOM	1173 1174	CD	LYS	463	98.679		62.120	1.00 20.00
ATOM	1175		LYS	463	98.788		62.493	1.00 20.00
ATOM	1176		THR	464	93.814		59.837	1.00 20.00
ATOM	1177		THR	464	92.864		59.134	1.00 20.00
MOTA	1178	С	THR	464	93.550		58.060	
MOTA	1179		THR	464	94.479		57.415	
ATOM	1180		THR	464	91.764 91.012		58.472 59.441	
ATOM	1181			464	90.863		57.709	
ATOM	1182		2 THR LYS	464 465	93.109			
ATOM ATOM	1183 1184			465	93.702			1.00 20.00
ATOM	1185		LYS	465	92.636			1.00 20.00
ATOM	1186		LYS	465	91.615			
MOTA	1187		LYS	465	94.341			
ATOM	1188			465	95.607			
MOTA	1189			465	96.09			
ATOM	1190			465 465	97.369 97.093			
MOTA	1191	l NZ	LYS	400	<i>51.</i> ∪3.		20.000	

ATOM	1192	N	ILE	466	92.846	35.262	54.596	1.00 20.00
ATOM	1193		ILE	466	91.848	34.946	53.61;	1.00 20.00
ATOM	1194	С	ILE	466	92.517	34.355	52.417	1.00 20.00
ATOM	1195	0	ILE	466	93.466	34.923	51.891	1.00 20.00
ATOM	1196	CB	ILE	466	91.074	36.151	53.170	1.00 20.00
ATOM	1197	CG1	ILE	466	90.333	36.766	54.365	1.00 20.00
MOTA	1198		ILE	466	90.152	35.737	52.013	1.00 20.00
ATOM:	1199	CD1	ILE	466	89.731	38.139	54.078	1.00 20.00
ATOM	1200	N	ILE	467	92.035 92.573	33.172 32.536	51.984 50.81	1.00 20.00
ATOM	1201	CA C	ILE	467 467	91.536	31.584	50.304	1.00 20.00
ATOM ATOM	1202 1203	0	ILE	467	90.683	31.122	51.058	1.00 20.00
ATOM	1204	СВ	ILE	467	93.788	31.696	51.094	1.00 20.00
ATOM	1205	CG1	ILE	467	93.422	30.542	52.043	1.00 20.00
ATOM	1206	CG2	ILE	467	94.909	32.604	51.623	1.00 20.00
MOTA	1207	CD1	ILE	467	94.498	29.462	52.139	1.00 20.00
MOTA	1208	N	SER	468	91.619	31.255	48.99ê	1.00 20.00
MOTA	1209	CA	SER	468	90.783	30.284	48.343	1.00 20.00
ATOM	1210	C	SER	468	89.360	30.746	48.165	1.00 20.00
MOTA	1211	0	SER	468	88.467	29.925	47.970	1.00 20.00
ATOM	1212	CB	SER	468	90.779	28.934	49.089	1.00 20.00
ATOM	1213	OG	SER	468	90.070	27.948	48.353 48.185	1.00 20.00 1.00 20.00
ATOM	1214	N GP	ASN	469	89.097 87.747	32.068 32.520	47.969	1.00 20.00
ATOM	1215	CA	ASN ASN	469 469	87.572	32.802	46.507	1.00 20.00
ATOM	1216 1217	C 0	ASN	469	88.441	32.493	45.695	1.00 20.00
ATOM ATOM	1217	CB	ASN	469	87.384	33.794	48.749	1.00 20.00
MOTA	1219	CG	ASN	469	87.287	33.412	50.217	1.00 20.00
MOTA	1220	OD1	ASN	469	86.717	32.378	50.565	1.00 20.00
ATOM	1221	ND2	ASN	469	87.864	34.263	51.106	1.00 20.00
ATOM	1222	N	ARG	470	86.410	33.377	46.130	1.00 20.00
MOTA	1223	CA	ARG	470	86.132	33.660	44.748	1.00 20.00
MOTA	1224	С	ARG	470	86.921	34.869	44.341	1.00 20.00
ATOM	1225	0	ARG	470	87.221	35.734	45.161 44.482	1.00 20.00 1.00 20.00
MOTA	1226	CB	ARG	470	84.637	33.931	44.482	1.00 20.00
ATOM	1227	CG	ARG	470 470	84.275 82.772	34.019 34.139	42.737	1.00 20.00
ATOM	1228 1229	CD NE	ARG ARG	470	82.588	34.216	41.260	1.00 20.00
ATOM ATOM	1230	CZ	ARG	470	81.339	34.380	40.735	1.00 20.00
ATOM	1230		ARG	470	80.257	34.478	41.562	1.00 20.00
ATOM	1232		ARG	470	81.173	34.450	39.381	1.00 20.00
ATOM	1233	N	GLY	471	87.287	34.952	43.042	1.00 40.00
ATOM	1234	CA	GLY	471	88.067	36.057	42.562	1.00 40.00
MOTA	1235	С	GLY	471	87.152	37.224	42.377	1.00 40.00
MOTA	1236	0	GLY	471	86.076	37.104	41.795	1.00 40.00
MOTA	1237	N	GLU	472	87.613	38.410	42.811	1.00 40.00
ATOM	1238	CA	GLU	472	86.824	39.608 39.843	42.795 41.394	1.00 40.00
ATOM	1239	C	GLU	472 472	86.359 85.213	40.227	41.168	1.00 40.00
ATOM ATOM	1240 1241	CB	GLU GLU	472	87.656	40.849	43.158	1.00 40.00
ATOM	1242	CG	GLU	472	88.242	40.851	44.569	1.00 40.00
ATOM	1243	CD	GLU	472	89.222	42.008	44.650	1.00 40.00
ATOM	1244		GLU	472	90.181	42.018	43.832	1.00 40.00
ATOM	1245		GLU	472	89.027	42.895	45.523	1.00 40.00
ATOM	1246	N	ASN	473	87.251	39.624	40.412	1.00 40.00
ATOM	1247	CA	ASN	473	86.911	39.872	39.041	1.00 40.00
ATOM	1248	C	ASN	473	85.811	38.947	38.630	1.00 40.00
ATOM	1249	0	ASN	473	84.872	39.352 39.653	37.944 38.087	1.00 40.00
ATOM	1250	CB	ASN	473 473	88.101 88.545	38.201	38.192	1.00 40.00
ATOM ATOM	1251 1252	CG	ASN ASN	473	88.650	37.650	39.286	1.00 40.00
ATOM	1253		ASN	473	88.816	37.562	37.022	1.00 40.00
ATOM	1254	N	SER	474	85.903	37.672	39.044	1.00 20.00
ATOM	1255	CA	SER	474	84.930	36.687	38.670	1.00 20.00
ATOM	1256	С	SER	474	83.616	37.035	39.287	1.00 20.00
ATOM	1257	0	SER	474	82.566	36.879	38.667	1.00 20.00
ATOM	1258	CB	SER	474	85.310	35.274	39.145	1.00 20.00
ATOM	1259	OG	SER	474	84.316	34.339	38.752	1.00 20.00
ATOM	1260	N	CYS	475	83.632	37.527	40.538	1.00 20.00
MOTA	1261	CA	CYS	475	82.399	37.791	41.211	1.00 20.00
ATOM	1262	C	CYS	475	81.660	38.870		1.00 20.00
MOTA	1263	0	CYS	475	80.436 82.545	38.823 38.242		1.00 20.00
MOTA	1264	CB	CYS	475 475	80.882			1.00 20.00
ATOM ATOM	1265 1266	SG N	CYS LYS	475	82.387			
ATOM	1267		LYS	476	81.730			1.00 60.00
ATOM	1268		LYS	476	80.842			

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nmot/	1269	0	LYS	476	79.807	40.006	39.902	1.00 60.00
ATO!!	1070	CB	LYS	476	80.873	40.477	38.102	1.00 60.00
ATC!!	1070 1271	CG	LYS	476	81.696	39.95	36,918	1.00 60.00
ATCM	1272	CD	LYS	476	80.866	39.204	35.876	1.00 60.00
ATOM	1273	CE	LYS	476	81.658	38.912	34.626	1.00 60.00
ATOM	1274	NZ	LYS	476	81.946	40.016	33.814	1.00 60.00
ATO:	1275	1,	ALA	477	81.240	41.631	41.547	1.00 60.00
ATCH	1276	CA	ALA	477	80.531	42.330	42.571	1.00 60.00
ATC::	1277	0	ALA	477	81.458	43.425	42.964	1.00 60.00
ATC::	1278	0	ALA	477	82.140	43.988	42.107	1.00 60.00
ATC::	1279	CB	ALA	477	80.270	41.476	43.822	1.00 60.00
ATOM:	1280	N	THR	478	81.434	43.7€2	44.271	1.00 60.00
ATO::	1281	CA	THR	478	82,280	44.706	44.946	1.00 60.00
ATO!	1282	C	THR	478	81.379	45.659	45.645	1.00 60.00
ATC::	1283	0	THR	478	80.158	45.505	45.621	1.00 60.00
ATCM:	1284	C3	THR	478	83.241	45.491	44.091	1.00 60.00
MOTA:	1285	OG1		478	84.170	46.190	44.905	1.00 60.00 1.00 60.00
ATOM:	1286	CG2	THR	478	82.449	46.475	43.218	1.00 60.00 1.00 60.00
ATOM	1287	11	GLY	479	81.961	46.668 47.620	46.311 46.982	1.00 60.00
ATOM	1288	CA	GLY	479 479	81.135 80.339	48.282	45.917	1.00 60.00
ATOM	1289	C	GLY GLY	479	79.229	48.758	46.150	1.00 60.00
ATOM	1290 1291	0 N	GLN	480	80.915	48.323	44.705	1.00 60.00
ATOM ATOM	1292	CA	GLN	480	80.274	48.950	43.593	1.00 60.00
ATOM	1293	C	GLN	480	79.022	48.203	43.269	1.00 60.00
ATOM:	1294	Ö	GLN	480	77.964	48.807	43.111	1.00 60.00
ATOM	1295	ĊВ	GLN	480	81.150	48.968	42.329	1.00 60.00
NOTA.	1296	CG	GLN	480	80.508	49.691	41.145	1.00 60.00
MOTA	1297	CD	GLN	480	80.495	51.178	41.465	1.00 60.00
ATOM	1298	OE1	GLN	480	79.907	51.606	42.458	1.00 60.00
ATOM	1299	NE2	GLN	480	81.164	51.991	40.604	1.00 60.00
ATOM	1300	N	VAL	481	79.086	46.857	43.177	1.00 60.00
MOTA	1301	CA	VAL	481	77.874	46.197	42.794	1.00 60.00
MOTA	1302	С	VAL	481	77.040	46.010	44.018	1.00 60.00
MOTA	1303	0	VAL	481	76.809	44.890	44.459	1.00 60.00 1.00 60.00
MOTA	1304	CB	VAL	481	78.100	44.852	42.165 41.800	1.00 60.00
ATOM.	1305	CG1		481 481	76.738 79.045	44.232 45.029	40.961	1.00 60.00
MOTA	1306 1307	CG2 N	CYS	482	76.550	47.117	44.594	1.00 20.00
ATOM	1307	CA	CYS	482	75.700	46.981	45.737	1.00 20.00
MOTA MOTA	1309	C	CYS	482	74.501	47.830	45.449	1.00 20.00
ATOM	1310	Ö	CYS	482	74.309	48.262	44.314	1.00 20.00
ATOM	1311	CB	CYS	482	76.306	47.484	47.059	1.00 20.00
ATOM	1312	SG	CYS	482	75.422	46.745	48.459	1.00 20.00
ATOM	1313	14	HIS	483	73.647	48.093	46.459	1.00 20.00
MOTA	1314	CA	HIS	483	72.490	48.892	46.177	1.00 20.00
MOTA	1315	С	HIS	483	72.962	50.278	45.890	1.00 20.00
MOTA:	1316	0	HIS	483	74.064	50.667	46.277	1.00 20.00
ATOM	1317	CB	HIS	483	71.455	48.954	47.314 46.841	1.00 20.00
ATOM	1318	CG	HIS HIS	483 483	70.136 69.832	49.489 50.827	46.731	1.00 20.00
ATOM	1319		HIS	483	69.027	48.820	46.420	1.00 20.00
MOTA MOTA	1320 1321		HIS	483	68.565	50.902	46.253	1.00 20.00
ATOM	1322		HIS	483	68.035	49.709	46.048	1.00 20.00
ATOM	1323	N	ALA	484	72.129	51.056	45.177	1.00 20.00
ATOM	1324	CA	ALA	484	72.479	52.397	44.810	1.00 20.00
MOTA	1325	C	ALA	484	72.633	53.183	46.070	1.00 20.00
MOTA	1326	O	ALA	484	73.512	54.036	46.182	1.00 20.00
MOTA	1327	CB	ALA	484	71.397	53.086	43.963	1.00 20.00
ATOM	1328	14	LEU	485	71.761	52.894	47.053	1.00 20.00
ATOM	1329		LEU	485	71.700	53.607	48.296	1.00 20.00
MOTA	1330		LEU	485	72.942	53.404	49.104	1.00 20.00
MOTA	1331	0	LEU	485 485	73.430	54.351 53.126	49.719 49.167	1.00 20.00
ATOM:	1332		LEU		70.524 69.159	53.245	48.467	1.00 20.00
MOTA	1333 1334		LEU 1 LEU	485 485	68.011	52.771	49.377	1.00 20.00
ATOM	1335		2 LEU	485	68.937	54.658	47.908	1.00 20.00
ATOM	1335	-	CYS	486	73.484	52.168	49.133	1.00 20.00
ATOM	1337			486	74.625	51.904	49.965	
ATOM	1338		CYS	486	75.706	52.850	49.592	1.00 20.00
MOTA	1339		CYS	486	75.889	53.172	48.420	
ATOM	1340			486	75.216			
MOTA	1341	SG		486	74.121	49.204	50.457	1.00 20.00
ATOM	1342		SER	487	76.435			
ATOM	1343			487	77.514			
ATOM:	1344		SER	487	78.465			
MOTA.	1345	, 0	SER	487	78.379	52.106	49.660	1.00 20.00

ATOM	1346	CB	SER	487	78.281	54.827	51.430	1.00 20.00
ATOM	1347	OG	SER	487	77.478	55.768	52.122	1.00 20.00
ATOM	1348	N	PRO	488	79.382	53.939	48.865	1.00 20.00
ATOM	1349	CA	PRO	488	80.388	53.191	48.173	1.00 20.00
ATOM	1350	С	PRO	488	81.308	52.611	49.194	1.00 20.00
MOTA	1351	0	PRO	488	82.218	51.872	48.822	1.00 20.00
ATOM	1352	CB	PRO	488	81.050	54.175	47.213	1.00 20.00
ATOM	1353	CG	PRO	488	79.936	55.196	46.918	1.00 20.00
ATOM	1354	CD	PRO	488	79.074	55.190	48.190	1.00 20.00
ATOM	1355	N	GLU	489	81.082	52.939	50.480	1.00 20.00
ATOM	1356	CA	GLU	489	81.887	52.429	51.541	1.00 20.00
ATOM	1357	С	GLU	489	81.934	50.937	51.382	1.00 20.00
ATOM	1358	0	GLU	489	83.018	50.363	51.283 52.922	1.00 20.00 1.00 20.00
MOTA	1359	CB	GLU	489	81.309	52.775 54.263	53.271	1.00 20.00
ATOM	1360	CG	GLU	489 489	81.341 82.584	54.519	54.109	1.00 20.00
ATOM	1361	CD OE1	GLU GLU	489	83.273	53.525	54.462	1.00 20.00
ATOM ATOM	1362 1363	OE2	GLU	489	82.857	55.710	54.413	1.00 20.00
ATOM	1364	N	GLY	490	80.767	50.256	51.324	1.00 20.00
ATOM	1365	CA	GLY	490	80.835	48.832	51.130	1.00 20.00
ATOM	1366	C	GLY	490	79.555	48.203	51.585	1.00 20.00
ATOM	1367	0	GLY	490	78.679	48.877	52.122	1.00 20.00
ATOM	1368	N	CYS	491	79.399	46.879	51.350	1.00 20.00
MOTA	1369	CA	CYS	491	78.209	46.235	51.827	1.00 20.00
ATOM	1370	С	CYS	491	78.399	44.758	51.876	1.00 20.00
MOTA	1371	0	CYS	491	79.286	44.211	51.229	1.00 20.00
MOTA	1372	CB	CYS	491	76.949	46.530	50.999	1.00 20.00
ATOM	1373	SG	CYS	491	76.845	45.656	49.412	1.00 20.00
MOTA	1374	N	TRP	492	77.572	44.077	52.696	1.00 20.00
ATOM	1375	CA	TRP	492	77.645	42.652	52.854	1.00 20.00
ATOM	1376	C	TRP	492	77.156	41.956 40.931	51.623 51.222	1.00 20.00
ATOM	1377	0	TRP	492 492	77.706 76.839	42.138	54.059	1.00 20.00
ATOM	1378	CB	TRP TRP	492	77.411	42.582	55.386	1.00 20.00
ATOM ATOM	1379 1380	CG CD1		492	77.066	43.652	56.161	1.00 20.00
ATOM	1381	CD2		492	78.486	41.917	56.070	1.00 20.00
ATOM	1382	NE1		492	77.856	43.693	57.285	1.00 20.00
ATOM	1383	CE2		492	78.736	42.632	57.241	1.00 20.00
ATOM	1384	CE3	TRP	492	79.206	40.803	55.747	1.00 20.00
ATOM	1385	CZ2	TRP	492	79.715	42.241	58.110	1.00 20.00
ATOM	1386	CZ3		492	80.192	40.412	56.627	1.00 20.00 1.00 20.00
ATOM	1387	CH2		492	80.441	41.116 42.480	57.786 50.992	1.00 20.00
ATOM	1388	N	GLY GLY	493 493	76.091 75.577	41.839	49.816	1.00 20.00
ATOM ATOM	1389 1390	CA C	GLY	493	74.674	42.826	49.170	1.00 20.00
ATOM	1391	Ö	GLY	493	74.517	43.940	49.662	1.00 20.00
ATOM	1392	N	PRO	494	74.085	42.478	48.066	1.00 20.00
ATOM	1393	CA	PRO	494	73.181	43.411	47.475	1.00 20.00
ATOM	1394	С	PRO	494	71.957	43.495	48.320	1.00 20.00
ATOM	1395	0	PRO	494	71.244	42.499	48.441	1.00 20.00
ATOM	1396	CB	PRO	494	72.967	42.955	46.028	1.00 20.00
ATOM	1397	CG	PRO	494	73.674	41.587	45.944	1.00 20.00 1.00 20.00
ATOM	1398	CD	PRO	494	74.719	41.636	47.071 48.908	1.00 20.00
ATOM	1399	N	GLU	495	71.693 70.524	44.674	49.712	1.00 20.00
ATOM	1400	CA	GLU	495 495	70.697	46.191	50.372	1.00 20.00
ATOM	1401	0	GLU GLU	495	71.821	46.621	50.624	1.00 20.00
ATOM ATOM	1402 1403	СВ	GLU	495	70.360	43.811	50.823	1.00 20.00
ATOM	1403	CG	GLU	495	69.053	43.951	51.605	1.00 20.00
ATOM	1405	CD	GLU	495	67.919	43.469	50.712	1.00 20.00
ATOM	1406		1 GLU	495	68.141	42.490	49.951	1.00 20.00
ATOM	1407	OE:	2 GLU	495	66.816	44.076	50.776	1.00 20.00
ATOM	1408	N	PRO	496	69.617	46.867	50.634	1.00 20.00
ATOM	1409	CA	PRO	496	69.728	48.144	51.288	1.00 20.00
MOTA	1410	С	PRO	496	70.094	48.034	52.738	1.00 20.00
MOTA	1411	0	PRO	496	70.527	49.029	53.317	1.00 20.00
ATOM	1412		PRO	496	68.397	48.852 48.245		1.00 20.00
ATOM	1413		PRO	496 496	67.898 68.500		49.702	
ATOM	1414		PRO ARG	496 497	69.850			
ATOM ATOM	1415 1416			497	70.163			
ATOM	1417		ARG	497	71.634			
ATOM	1418		ARG	497	72.213			1.00 20.00
ATOM	1419			497	69.455			
ATOM	1420	CG	ARG	497	67.933			
MOTA	1421			497	67.248			
ATOM	1422	NE	ARG	497	65.783	44.507	55.944	1.00 20.00

Figure 6 (continued)

ATOM	1423	C3	ARG	497	64.913	43.539	55.532	1.00 20.00
ATOM	1424	NHI	ARG	497	65.388	42.340	55.084	1.00 20.00
ATOM	1425	NH2	ARG	497	63.569	43.771	55.562	1.00 20.00
ATOM	1426	И	ASF	498	72.258	45.786	53.871	1.00 20.00
ATOM	1427	CA	ASP	498	73.619	45.318	53.880	1.00 20.00
ATOM	1428	C	ASP	498	74.635	46.415	53.995	1.00 20.00
MOTA	1429	0	ASP	498	75.734 73.972	46.167 44.490	54.491 52.632	1.00 20.00
ATOM	1430 1431	CB CG	ASP ASP	498 498	73.285	43.137	52.762	1.00 20.00
ATOM ATOM	1431	001	ASP	498	72.794	42.828	53.880	1.00 20.00
ATOM	1433	002	ASP	498	73.244	42.394	51.745	1.00 20.00
ATOM	1434	N	CYS	499	74.309	47.632	53.523	1.00 20.00
ATOM	1435	CA	CYS	499	75.217	48.746	53.443	1.00 20.00
MOTA	1436	С	CYS	499	76.076 75.673	48.873 48.537	54.667 55.778	1.00 20.00
MOTA	1437 1438	CB O	CYS	499 499	74.499	50.098	53.319	1.00 20.00
ATOM ATOM	1439	SG	CYS	499	73.235	50.139	52.018	1.00 20.00
ATOM	1440	N	VAL	500	77.353	49.258	54.459	1.00 20.00
ATOM	1441	CA	VAL	500	78.214	49.603	55.551	1.00 20.00
MOTA	1442	С	VAL	500	77.873	51.010	55.951	1.00 20.00
ATOM	1443	0	VAL	500	77.909	51.356 49.524	57.131 55.206	1.00 20.00
ATOM	1444 1445	CB CG1	VAL VAL	500 500	79.667 80.029	49.324	54.924	1.00 20.00
ATOM ATOM	1446	CG2		500	79.904	50.443	54.009	1.00 20.00
ATOM	1447	11	SER	501	77.545	51.866	54.952	1.00 20.00
ATOM	1448	CA	SER	501	77.198	53.242	55.189	1.00 20.00
ATOM	1449	C	SER	501	76.137	53.625	54.200	1.00 20.00
ATOM	1450	0	SER	501	75.859	52.874	53.268	1.00 20.00
ATOM	1451	CB	SER	501 501	78.376 77.960	54.213 55.546	54.995 55.248	1.00 20.00
ATOM	1452 1453	og N	SER CYS	502	75.517	54.815	54.380	1.00 20.00
ATOM ATOM	1453	CA	CYS	502	74.431	55.218	53.523	1.00 20.00
ATOM	1455	C	CYS	502	74.844	56.410	52.722	1.00 20.00
ATOM	1456	0	CYS	502	75.623	57.247	53.175	1.00 20.00
ATOM	1457	CB	CYS	502	73.156	55.608	54.284	1.00 20.00
ATOM	1458	SG	CYS	502	72.458 74.362	54.244 56.473	55.262 51.463	1.00 20.00
MOTA MOTA	1459 1460	N CA	ARG ARG	503 503	74.650	57.568	50.582	1.00 20.00
ATOM	1461	C	ARG	503	73.932	58.782	51.070	1.00 20.00
ATOM	1462	0	ARG	503	74.479	59.884	51.077	1.00 20.00
ATOM	1463	CB	ARG	503	74.209	57.298	49.134	1.00 20.00
ATOM	1464	CG	ARG	503	74.559 74.378	58.432 58.051	48.168 46.698	1.00 20.00
MOTA MOTA	1465 1466	CD NE	ARG ARG	503 503	75.343	56.950	46.414	1.00 20.00
ATOM	1467	CZ	ARG	503	75.391	56.381	45.175	1.00 20.00
ATOM	1468	NH1		503	74.567	56.830	44.183	1.00 20.00
ATOM	1469	NH2		503	76.264	55.361	44.929	1.00 20.00
ATOM	1470	11	ASN	504	72.675	58.592 59.676	51.510 51.964	1.00 20.00
ATOM	1471	CA	ASN ASN	504 504	71.854 71.698	59.517	53.442	1.00 20.00
ATOM ATOM	1472 1473	C O	ASN	504	72.674	59.580	54.188	1.00 20.00
ATOM	1474	CB	ASN	504	70.443	59.663	51.353	1.00 20.00
ATOM	1475	CG	ASN	504	70.559	60.054	49.887	1.00 20.00
ATOM	1476	OD:		504	70.337	61.208	49.524	1.00 20.00
ATOM	1477		2 ASN	504	70.931	59.074	49.021 53.902	1.00 20.00
ATOM	1478	N	VAL	505 505	70.445 70.183	59.326 59.225	55.308	1.00 20.00
ATOM ATOM	1479 1480	CA C	VAL VAL	505	69.850	57.813	55.663	1.00 20.00
ATOM	1481	Õ	VAL	505	69.209	57.094	54.899	1.00 20.00
MOTA	1482	СВ	VAL	505	69.023	60.068	55.753	1.00 20.00
MOTA	1483		1 VAL	505	69.370	61.547	55.508	1.00 20.00
MOTA	1484		2 VAL	505	67.760	59.592	55.015	1.00 20.00
ATOM	1485	N	SER	506	70.288 70.013	57.376 56.032	56.861 57.274	1.00 20.00
ATOM ATOM	1486 1487	CA C	SER SER	506 506	68.874	56.071	58.232	1.00 20.00
ATOM	1488	0	SER	506	68.829		59.116	1.00 20.00
MOTA	1489		SER	506	71.196	55.346	57.979	1.00 20.00
ATOM	1490		SER	506	71.513		59.184	1.00 20.00
ATOM	1491	N	ARG	507	67.889		58.054	1.00 20.00
ATOM.	1492			507	66.805		58.986 59.162	1.00 20.00
ATOM ATOM	1493 1494		ARG ARG	507 507	66.316 66.135		58.195	
ATOM	1495			507	65.582		58.540	1.00 20.00
ATOM	1496			507	64.569	56.137	59.674	
MOTA	1497	CD	ARG	507	63.128		59.207	
ATOM	1498			507	62.640		58.799	
ATOM	1499	CZ	ARG	507	62.196	54.103	59.749	1.00 20.00

ATO:	1500	NH1	ARG	507	62.193	54.466	61.063	1.00 20.00
ATOM			ARG	507	61.767	52.860	59.384	1.00 20.00
ATOM		N	GLY	508	66.092	53.353	60.427	1.00 20.00
ATOM:	1503		GLY	508	65.512	52.070	60.708	1.00 20.00
ATCM	1504		GLY	508	66.299	50.986	60.045	1.00 20.00
MOTA	1505		GLY	508	65.732	50.122	59.379	1.00 20.00
ATCM:	1506		ARG	509	67.634	51.005	60.199 59.663	1.00 20.00 1.00 20.00
MOTA	1507		ARG	509	68.449	49.952 49.934	58.167	1.00 20.00
ATON:	1508		ARG	509 509	68.364 68.854	48.999	57.537	1.00 20.00
ATOM	1509		ARG ARG	509	68.033	48.563	60.175	1.00 20.00
ATOM ATOM	1510 1511		ARG	509	68.312	48.359	61.665	1.00 20.00
ATOM.	1512		ARG	509	67.553	49.333	62.566	1.00 20.00
ATOM	1513	NE	ARG	509	67.924	49.017	63.973	1.00 20.00
ATOM:	1514	CZ	ARG	509	68.352	50.012	64.803	1.00 20.00
ATOM:	1515		ARG	509	68.460	51.291	64.334	1.00 20.00
ATOM:	1516	NH2	ARG	509	68.695	49.728	66.097	1.00 20.00
ATOM:	1517	И	GLU	510	67.772	50.970	57.542	1.00 20.00
MOTA	1518	CA	GLU	510	67.718	50.937	56.106	1.00 20.00
MOTA	1519	C	GLU	510	68.333 68.194	52.195 53.259	55.588 56.189	1.00 20.00
ATOM	1520	0	GLU	510	66.288	50.867	55.545	1.00 20.00
ATOM	1521	CB CG	GLU	510 510	65.582	49.546	55.849	1.00 20.00
ATOM	1522 1523	CD	GLU	510	64.187	49.607	55.244	1.00 20.00
ATOM ATOM	1524	OE1		510	63.465	50.600	55.520	1.00 20.00
ATOM	1525	OE2	GLU	510	63.828	48.660	54.492	1.00 20.00
ATOM	1526	N	CYS	511	69.047	52.103	54.447	1.00 20.00
ATOM	1527	CA	CYS	511	69.634	53.289	53.898	1.00 20.00
ATOM	1528	C	CYS	511	68.588	53.932	53.058	1.00 20.00
ATOM	1529	0	CYS	511	68.168	53.366	52.050	1.00 20.00
ATOM	1530	CB	CYS	511	70.861	53.056	53.004	1.00 20.00
MOTA	1531	SG	CYS	511	72.367	52.696	53.951 53.455	1.00 20.00
MOTA	1532	N	VAL	512	68.147 67.083	55.145 55.770	52.731	1.00 20.00
ATOM	1533	CA	VAL VAL	512 512	67.616	56.996	52.045	1.00 20.00
MOTA	1534 1535	C O	VAL	512	68.571	57.622	52.500	1.00 20.00
ATOM ATOM	1536	СВ	VAL	512	65.925	56.163	53.592	1.00 20.00
ATOM	1537	CG1	VAL	512	64.874	56.802	52.679	1.00 20.00
ATOM	1538	CG2	VAL	512	65.431	54.930	54.370	1.00 20.00
MOTA	1539	N	ASP	513	67.031	57.324	50.876	1.00 20.00
MOTA	1540	CA	ASP	513	67.399	58.471	50.092	1.00 20.00 1.00 20.00
ATOM	1541	C	ASP	513	66.971 67.655	59.731 60.752	50.782	1.00 20.00
ATOM	1542	O CB	ASP ASP	513 513	66.741	58.477	48.701	1.00 20.00
ATOM ATOM	1543 1544	CG	ASP	513	67.445	57.430	47.852	1.00 20.00
ATOM	1545	OD1		513	68.703	57.390	47.899	1.00 20.00
ATOM	1546		ASP	513	66.739	56.654	47.153	1.00 20.00
MOTA	1547	N	LYS	514	65.792	59.711	51.433	1.00 20.00
MOTA	1548	CA	LYS	514	65.328	60.890	52.111	1.00 20.00
ATOM	1549	C	LYS	514	64.543	60.445	53.303	1.00 20.00
ATOM	1550	0	LYS	514	64.072	59.314	53.363 51.250	1.00 20.00
ATOM	1551	CB	LYS	514	64.418 65.171	61.783 62.493	50.121	1.00 20.00
ATOM	1552	CG CD	LYS LYS	514 514	64.262	63.132	49.070	1.00 20.00
ATOM	1553 1554	CE	LYS	514	65.032	63.843		
ATOM ATOM	1555	NZ	LYS	514	64.091	64.362	46.939	1.00 20.00
ATOM	1556	N	CYS	515	64.364	61.331	54.298	1.00 20.00
ATOM	1557	CA	CYS	515	63.702	60.901	55.494	1.00 20.00
ATOM	1558	С	CYS	515	62.260	60.630	55.213	1.00 20.00
ATOM	1559	0	CYS	515	61.617	61.322	54.424	1.00 20.00
ATOM	1560	CB	CYS	515	63.779			1.00 20.00
MOTA	1561	SG	CYS	515	65.495	62.245 59.587		1.00 20.00
MOTA	1562	N	LYS	516	61.715 60.338	59.248		1.00 20.00
ATOM	1563		LYS LYS	516 516	59.508			
MOTA MOTA	1564 1565	C	LYS	516	60.028			
MOTA	1566			516	59.937			
ATOM	1567		LYS	516	60.407	56.721	55.281	
MOTA	1568			516	60.131			
ATOM	1569			516	60.375			
ATOM	1570		LYS	516	59.995			
ATOM	1571		LEU	517	58.173			
ATOM	1572			517 517	57.262 57.420			
ATOM	1573 1574		LEU	517	57.760			
ATOM ATOM	1575			517	55.786			1.00 20.00
ATOM	1576			517	55.421			

ATOM:	1577	CD1 LET	517	53.936	60.393	54.851	1.00 20.00
		CD2 LET	517	55.842	62.029		1.00 20.00
MOTA		N LEV	518	57.184	62.279		1.00 20.00
ATOM		CA LET	518	57.206	62.441	60.351	1.00 20.00
MOTA		C FEC.	518	58.616	62.527	60.845	1.00 20.00
ATOM		c LEU	518	58.919	63.349	61.710	1.00 20.00
MOTA	1583	CB LEG	518	56.481	61.310	61.090	1.00 20.00
MOTA	1584	CG LEU	519	54.964	61.303	60.837	1.00 20.00
ATOM:	1585	CD1 LEC	518	54.269	60.161	61.599	1.00 20.00
MOTA	1586	CD3 FEr	518	54.345	62.679	61.130	1.00 20.00
ATOM	1587): GLU	519	59.531	61.699	60.306	1.00 20.00
MOTA	1588	CA GLU	519	60.877	61.766	60.797 60.047	1.00 20.00
MOTA	1589	C GLU	519	61.592	62.839	58.904	1.00 20.00
ATOM	1590	O GLL	519	61.258	60.458	60.642	1.00 20.00
ATOM	1591	CB GLU	519	61.672 61.238	59.365	61.624	1.00 20.00
MOTA	1592	CG GLU	519 519	59.893	58.814	61.175	1.00 20.00
ATOM	1593	CD GLU	519	59.860	58.108	60.134	1.00 20.00
MOTA	1594 1595	OE1 GLU OE2 GLJ	519	58.880	59.092	61.872	1.00 20.00
ATOM	1596	N GLY	520	62.600	63.450	60.700	1.00 20.00
ATOM	1597	CA GLY	520	63.343	64.505	60.084	1.00 20.00
ATOM ATOM	1598	C GLY	520	64.786	64.197	60.269	1.00 20.00
ATOM	1599	O GLY	520	65.170	63.520	61.219	1.00 20.00
ATOM	1600	N GLU	521	65.634	64.696	59.351	1.00 20.00
ATOM	1601	CA GLU	521	67.033	64.438	59.482	1.00 20.00
ATOM	1602	C GLU	521	67.477	65.134	60.722	1.00 20.00
ATOM	1603	O GLU	521	67.161	66.299	60.953	1.00 20.00
ATOM	1604	CB GLU	521	67.854	64.944	58.281	1.00 20.00
MOTA	1605	CG GLU	521	67.662	66.433	57.990	1.00 20.00
ATOM	1606	CD GLU	521	68.339	66.736	56.660	1.00 20.00
MOTA	1607	OE1 GLU	521	68.965	65.804	56.089	1.00 20.00
MOTA	1608	OE2 GLU	521	68.232	67.902 64.445	56.194 61.571	1.00 40.00
ATOM	1609	N PRO	522	68.191 68.590	65.051	62.816	1.00 40.00
ATOM	1610	CA PRO	522 522	69.641	66.105	62.691	1.00 40.00
ATOM	1611	C PRO O PRO	522	70.631	65.886	61.995	1.00 40.00
ATOM	1612 1613	O PRO	522	68.963	63.902	63.758	1.00 40.00
ATOM ATOM	1614	CG PRO	522	68.931	62.640	62.873	1.00 40.00
ATOM	1615	CD PRO	522	67.980	63.018	61.729	1.00 40.00
ATOM	1616	N ARG	523	69.439	67.259	63.361	1.00 60.00
ATOM	1617	CA ARG	523	70.404	68.317	63.323	1.00 60.00
ATOM	1618	c ARG	523	71.615	67.918	64.106	1.00 60.00
MOTA	1619	o ARG	523	72.742	68.050	63.632	1.00 60.00
MOTA	1620	CB ARG	523	69.898	69.639	63.931	1.00 60.00 1.00 60.00
MOTA	1621	CG ARG	523	70.919	70.776 72.058	63.818 64.564	1.00 60.00
MOTA	1622	CD ARG	523	70.536 71.636	73.041	64.343	1.00 60.00
MOTA	1623	NE ARG	523 523	71.887	74.014	65.267	1.00 60.00
ATOM	1624	CZ ARG NH1 ARG	523	71.129	74.090	66.400	1.00 60.00
MOTA MOTA	1625 1626	NH2 ARG	523	72.906	74.901	65.068	1.00 60.00
ATOM	1627	N GLU	524	71.410	67.395	65.334	1.00 60.00
ATOM	1628	CA GLU	524	72.537	67.073	66.160	1.00 60.00
ATOM	1629	C GLU	524	73.343	66.039	65.461	1.00 60.00
ATOM	1630	O GLU	524	74.560	66.165	65.332	1.00 60.00
MOTA	1631	CB GLU	524	72.162			1.00 60.00
ATOM	1632	CG GLU	524	71.570	67.491	68.523	1.00 60.00
ATOM	1633	CD GLU	524	70.085	67.643		1.00 60.00
MOTA	1634	OE1 GLU	524	69.607	67.051		1.00 60.00
ATOM	1635	OE2 GLU	524	69.406	68.354 64.984	_	1.00 60.00
ATOM	1636	N PHE	525	72.674 73.415			1.00 60.00
ATOM	1637	CA PHE	525 525	73.413			
ATOM	1638	C PHE	525 525	73.017		_	
ATOM	1639	O PHE	525	72.657			
ATOM ATOM	1640 1641	CG PHE	525	73.668			
ATOM	1642		525	74.325			
ATOM	1643		525	73.963		62.748	
ATOM	1644			75.264			
ATOM	1645		525	74.903			
ATOM	1646	CZ PHE		75.555			
ATOM	1647			74.415			
ATOM	1648			74.595			
ATOM	1649			73.243			
ATOM	1650			72.482 75.510			
ATOM	1651			75.56			
ATOM ATOM	1652 1653			76.88			
VI OU	700-						

n mot	1654	: GLU	527	72.897	65.409	59.458	1.00 60.00
ATON:		CA GLU	527	71.597	65.488		1.00 60.00
ATON:			527	71.514	64.370		1.00 60.00
ATOI:		C GLU			63.613	57.861	1.00 60.00
ATOM		O GLU	527	70.546			1.00 60.00
ATO:		CB GLU	527	71.392	66.788	58.072	
MOTA:		CG GLU	527	71.414	68.055	58.928	1.00 60.00
MOTA	1660	CD GLU	527	71.252	69.250	57.999	1.00 60.00
ATO:	1661	OE1 GLU	527	71.085	69.028	56.770	1.00 60.00
ATON:	1662	OE2 GLU	527	71.293	70.403	58.506	1.00 60.00
ATO!!	1663	N ASN	528	72.567	64.244	57.068	1.00 60.00
ATON:	1664	CA ASN	528	72.618	63.234	56.060	1.00 60.00
ATOM:	1665	C ASN	528	72.710	61.890	56.701	1.00 60.00
	1666	O ASN	528	72.087	60.941	56.241	1.00 60.00
MOTA			528	73.838	63.379	55.135	1.00 60.00
ATON:	1667			73.641	64.626	54.287	1.00 60.00
ATOM	1668	CG ASN	528	74.432	65.565	54.344	1.00 60.00
ATOM	1669	OD1 ASN	528			53.473	1.00 60.00
ATON:	1670	ND2 ASN	528	72.552	64.636		1.00 60.00
ATOM	1671	N SER	529	73.478	61.760	57.793	
MOTA	1672	CA SER	529	73.716	60.445	58.313	1.00 60.00
MOTA	1673	C SER	529	72.448	59.746	58 .7 02	1.00 60.00
ATOM:	1674	O SER	529	72.248	58.593	58.323	1.00 60.00
ATOM	1675	CB SER	529	74.643	60.435	59.538	1.00 60.00
ATOM	1676	OG SER	529	74.829	59.100	59.984	1.00 60.00
ATOM	1677	N GLU	530	71.541	60.397	59.456	1.00 40.00
		CA GLU	530	70.397	59.636	59.881	1.00 40.00
ATOM	1678		530	69.179	60.502	59.862	1.00 40.00
ATOM	1679	C GLU				59.585	1.00 40.00
ATOM	1680	O GLU	530	69.253	61.698		1.00 40.00
ATOM	1681	CB GLU	530	70.544	59.105	61.320	
ATOM	1682	CG GLU	530	69.478	58.092	61.745	1.00 40.00
ATOM	1683	CD GLU	530	69.711	57.758	63.212	1.00 40.00
MOTA	1684	OE1 GLU	530	70.606	58.395	63.829	1.00 40.00
ATOM	1685	OE2 GLU	530	68.993	56.865	63.737	1.00 40.00
ATOM	1686	N CYS	531	68.010	59.880	60.133	1.00 20.00
ATOM	1687	CA CYS	531	66.759	60.567	60.248	1.00 20.00
MOTA	1688	C CYS	531	66.246	60.216	61.610	1.00 20.00
ATOM	1689	O CYS	531	66.410	59.086	62.065	1.00 20.00
ATOM	1690	CB CYS	531	65.703	60.088	59.241	1.00 20.00
	1691	SG CYS	531	66.199	60.382	57.521	1.00 20.00
ATOM			532	65.626	61.184	62.311	1.00 20.00
MOTA	1692			65.117	60.898	63.621	1.00 20.00
ATOM	1693	CA ILE	532		61.295	63.671	1.00 20.00
ATOM	1694	C ILE	532	63.678		62.815	1.00 20.00
ATOM	1695	O ILE	532	63.192	62.029		
MOTA	1696	CB ILE	532	65.823	61.617	64.733	
ATOM	1697	CG1 ILE	532	65.724	63.139	64.540	1.00 20.00
MOTA	1698	CG2 ILE	532	67.251	61.058	64.841	1.00 20.00
MOTA	1699	CD1 ILE	532	66.167	63.939	65.763	1.00 20.00
MOTA	1700	N GLN	533	62.951	60.788	64.686	1.00 20.00
MOTA	1701	CA GLN	533	61.553	61.067	64.813	1.00 20.00
ATOM	1702	C GLN	533	61.371	62.413	65.417	1.00 20.00
ATOM	1703	O GLN	533	62.119	62.823	66.302	1.00 20.00
ATOM	1704	CB GLN	533	60.804	60.057	65.701	1.00 20.00
ATOM	1705	CG GLN	533	60.794	58.634	65.136	1.00 20.00
ATOM	1706	CD GLN	533	60.032	57.743	66.106	1.00 20.00
	1707	OE1 GLN	533	60.333	57.691	67.296	1.00 20.00
ATOM			533	59.003	57.022	65.581	1.00 20.00
ATOM	1708	NE2 GLN		60.367	63.148	64.910	1.00 20.00
MOTA	1709	N CYS	534			65.495	1.00 20.00
MOTA	1710	CA CYS	534	60.022	64.403		1.00 20.00
ATOM	1711	c cys	534	58.574	64.280	65.865	
ATOM	1712	O CYS	534	57.948	63.256	65.598	1.00 20.00
ATOM	1713	CB CYS	534	60.157	65.644	64.582	1.00 20.00
MOTA	1714	SG CYS	534	61.866	66.147	64.183	1.00 20.00
ATOM	1715	N HIS	535	58.003	65.315	66.513	1.00 20.00
ATOM	1716	CA HIS	535	56.617	65.244	66.889	1.00 20.00
ATOM	1717	C HIS	535	55.831	65.268	65.620	1.00 20.00
ATOM	1718	O HIS	535	56.310	65.745	64.593	1.00 20.00
ATOM.	1719	CB HIS	535	56.161	66.422	67.770	1.00 20.00
	1720	CG HIS	535	54.770	66.262		
ATOM		ND1 HIS	535	53.636	66.718	67.675	
ATOM	1721		535	54.340			
ATOM	1722	CD2 HIS			66.382		
MOTA	1723	CE1 HIS	535	52.584			
ATOM	1724	NE2 HIS	535	52.961	65.742		
MOTA	1725	N PRO	536	54.644			
MOTA	1726	CA PRO	536	53.823			
ATOM	1727	C PRO	536	53.461			
ATOM	1728	O PRO	536	53.280			
ATOM	1729		536	52.638			
HOTA	1730	CG PRO	536	52.756	63.534	66.338	1.00 20.00

T COM	1731	CD PRO	536	54.250	63.742	66.631	1.00 20.00
ATOM	1732	N GLU	537		67.015		1.00 20.00
ATOM ATOM	1733	CA GLU	537		68.366		1.00 20.00
ATOM	1734	C GLU	537		69.112	64.053	1.00 20.00
ATOM	1735	O GLU	537	53.932	69.949	63.171	1.00 20.00
ATOM	1736	CB GLU	537	52.434	69.166	65.841	1.00 20.00
ATOM	1737	CG GLU	537	51.026	68.734	66.257	1.00 20.00
ATOM	1738	CD GLU	537	50.080	69.061	65.105	1.00 20.00
ATOM	1739	OE1 GLU	537	50.515	69.775	64.162	1.00 20.00
ATOM	1740	OE2 GLL	537	48.909	68.599	65.152	1.00 20.00
ATOM.	1741	N CYS	538	55.359	68.847	64.529	1.00 20.00
MOTA	1742	CA CYS	538	56.479	69.589	64.027	1.00 20.00
ATOM	1743	C CYS	538	56.535	69.399	62.554	1.00 20.00
ATOM	1744	o cys	538	56.200	68.338	62.039	1.00 20.00
ATOM	1745	CB CYS	538	57.849	69.144	64.565	1.00 20.00 1.00 20.00
ATOM	1746	SG CYS	539	58.114	69.567 70.467	66.305 61.832	1.00 40.00
ATOM	1747	N LEU	539	56.913	70.324	60.421	1.00 40.00
ATOM	1748	CA LEU	539	57.049 58.462	70.668	60.113	1.00 40.00
MOTA	1749	C LEU	539 539	58.920	71.783	60.360	1.00 40.00
ATOM	1750	O LEU CB LEU	539	56.156	71.279	59.613	1.00 40.00
ATOM	1751		539	56.308	71.113	58.090	1.00 40.00
ATOM	1752 1753	CG LEU	539	55.841	69.723	57.627	1.00 40.00
ATOM	1754	CD2 LEU	539	55.618	72.257	57.330	1.00 40.00
MOTA MOTA	1755	N PRO	540	59.166	69.715	59.576	1.00 60.00
ATOM	1756	CA PRO	540	60.536	69.937	59.213	1.00 60.00
ATOM	1757	C PRO	540	60.630	70.650	57.905	1.00 60.00
ATOM	1758	O PRO	540	59.692	70.573	57.113	1.00 60.00
ATOM	1759	CB PRO	540	61.209	68.561	59.211	1.00 60.00
ATOM	1760	CG PRO	540	60.042	67.557	59.204	1.00 60.00
ATOM	1761	CD PRO	540	58.906	68.323	59.898	1.00 60.00
ATOM	1762	N GLN	541	61.752	71.357	57.667	1.00 60.00
ATOM	1763	CA GLN	541	61.955	72.030	56.420	1.00 60.00
MOTA	1764	C GLN	541	63.198	71.447	55.840	1.00 60.00
MOTA	1765	O GLN	541	64.142	71.139	56.564 56.560	1.00 60.00
MOTA	1766	CB GLN	541	62.188	73.543	57.026	1.00 60.00
MOTA	1767	CG GLN	541	60.949 59.944	74.310 74.291	55.883	1.00 60.00
MOTA	1768	CD GLN	541 541	59.626	73.234	55.340	1.00 60.00
ATOM	1769	OE1 GLN	541 541	59.436	75.492	55.500	1.00 60.00
ATOM	1770 1771	NE2 GLN N ALA	542	63.223	71.245	54.511	1.00 60.00
MOTA	1772	CA ALA	542	64.400	70.665	53.941	1.00 60.00
ATOM ATOM	1773	C ALA	542	65.538	71.612	54.146	1.00 60.00
ATOM	1774	O ALA	542	66.570	71.247	54.706	1.00 60.00
ATOM	1775	CB ALA	542	64.271	70.421	52.428	1.00 60.00
ATOM	1776	N MET	543	65.368	72.872	53.701	1.00 60.00
ATOM	1777	CA MET	543	66.419	73.835	53.841	1.00 60.00
ATOM	1778	C MET	543	66.577	74.177	55.283	1.00 60.00
MOTA	1779	O MET	543	67.692	74.256	55.799	1.00 60.00
ATOM	1780	CB MET	543	66.151	75.148	53.086	1.00 60.00
ATOM	1781	CG MET	543	67.326	76.128	53.160	1.00 60.00
ATOM	1782	SD MET	543	67.069	77.701	52.287	1.00 60.00
ATOM	1783	CE MET	543	68.699	78.380	52.710	1.00 60.00
ATOM	1784	n asn	544	65.443	74.378 74.780	55.976 57.349	1.00 60.00
ATOM	1785	CA ASN	544	65.489 65. 8 76	73.603	58.174	1.00 60.00
MOTA	1786	C ASN	544 544	65.982	72.482	57.681	1.00 60.00
ATOM	1787	O ASN CB ASN	544	64.147	75.310	57.883	1.00 60.00
MOTA MOTA	1788 1789		544	63.857	76.629	57.180	1.00 60.00
ATOM	1790		544	63.812	76.694	55.952	1.00 60.00
ATOM	1791		544	63.657	77.711	57.977	1.00 60.00
ATOM	1792	_	545	66.130	73.853	59.470	1.00 60.00
ATOM	1793		545	66.510	72.802	60.358	1.00 60.00
ATOM	1794		545	65.274	72.045	60.699	1.00 60.00
ATOM	1795	O ILE	545	64.176	72.384	60.262	1.00 60.00
ATOM	1796		545	67.099	73.290		1.00 60.00
ATOM	1797		545	66.061	74.113		
ATOM	1798		545	68.389			
ATOM	1799		545	66.466			
ATOM	1800		546 546	65.441			
ATOM	1801		546 546	64.335 64.243			
MOTA	1802		546	64.243			
ATOM ATOM	1803 1804		546	64.522			
MOTA	1805		546	63.322			1.00 40.00
ATOM	1806		546	65,667	68.171		
ATOM	180		547	63.289		64.012	1.00 20.00

Figure 6 (continued)

ATOM:	1508	CA CYS	5 547	63.128	69.673	65.427	1.00 20.00
ATOM	1809	C CYS		64.449	69.456	66.074	1.00 20.00
ATOM	1810	O CYS		65.209	68.567	65.694	1.00 20.00
ATOM	1811	CB CYS		62.115	68.643	65.988	1.00 20.00
MOTA	1812	SG CYS		62.634	66.895 70.309	65.919 67.067	1.00 20.00
MOTA	1813	N THE		64.765 66.007	70.178	67.764	1.00 20.00
ATOM	1814 1815	CA THE		65.964	68.871	68.481	1.00 20.00
ATOM ATOM	1816	O TH		66.935	68.114	68.484	1.00 20.00
ATOM	1817	CB TH		66.227	71.258	68.783	1.00 20.00
ATOM	1818	OG1 TH		66.223	72.530	68.153	1.00 20.00
ATOM	1819	CG2 TH		67.582	71.015	69.470	1.00 20.00
ATOM	1820	N GL		64.808 64.662	68.565 67.326	69.096 69.7°7	1.00 20.00
ATOM	1921 1822	CA GL		63.215	66.988	69.737	1.00 20.00
ATOM ATOM	1823	O GL		62.392	67.828	69.376	1.00 20.00
ATOM	1824	N AR		62.850	65.740	70.091	1.00 20.00
ATOM	1825	CA AR		61.455	65.449	70.004	1.00 20.00
ATOM:	1826	C AR		60.772	66.258	71.052 72.146	1.00 20.00
ATOM	1827	O AR		61.294 61.080	66.467 63.967	70.173	1.00 20.00
ATOM	1928 1829	CB AR		61.455	63.132	68.947	1.00 20.00
ATOM ATOM	1830	CD AR		60.714	61.798	68.835	1.00 20.00
ATOM	1831	NE AR		61.225	60.888	69.897	1.00 20.00
ATOM	1832	CZ AR		60.590	59.702	70,129	1.00 20.00
ATOM	1833	NH1 AR		59.473	59.377	69.414	1.00 20.00 1.00 20.00
MOTA	1834	NH2 AR		61.072 59.575	58.842 66.762	71.073 70.706	1.00 20.00
ATOM	1835	N GL		58.803	67.591	71.578	1.00 20.00
ATOM ATOM	1836 1837	C GI		58.177	68.610	70.684	1.00 20.00
ATOM	1838	O GL		58.788	69.056	69.715	1.00 20.00
ATOM	1839	N PR	to 552	56.968	68.981	70.986	1.00 20.00
MOTA	1840	CA PF		56.283	69.935	70.152	1.00 20.00 1.00 20.00
ATOM	1841	C PF		56.820 56.470	71.333 72.163	70.250 69.411	1.00 20.00
ATOM ATOM	1842 1843	O PF		54.804	69.819	70.517	1.00 20.00
ATOM	1844		RO 552	54.662	68.367	71.004	1.00 20.00
ATOM	1845		RO 552	56.047	68.021	71.575	1.00 20.00
ATOM	1846	N AS		57.596	71.636	71.304	1.00 20.00
ATOM	1847		SP 553	58.187 59.368	72.933 73.115	71.507 70.593	1.00 20.00
ATOM	1848 1849		SP 553 SP 553	59.695	74.227	70.184	1.00 20.00
MOTA MOTA	1850		SP 553	58.699	73.113	72.947	1.00 20.00
ATOM	1851		SP 553	59.092	74.568	73.163	1.00 20.00
ATOM	1852		SP 553	58.823	75.401	72.258	1.00 20.00
ATOM	1853	OD2 A		59.672	74.864	74.242 70.285	1.00 20.00
ATOM	1854		SN 554 SN 554	60.057 61.301	72.005 71.977	69.561	1.00 20.00
ATOM ATOM	1855 1856		SN 554 SN 554	61.192	72.331	68.103	1.00 20.00
ATOM	1857		SN 554	62.185	72.744	67.505	1.00 20.00
ATOM	1858		SN 554	62.017	70.621	69.675	1.00 20.00
ATOM	1859		SN 554	62.557	70.517	71.096	1.00 20.00
ATOM	1860	OD1 A		62.766 62.799	71.528	71.762 71.576	1.00 20.00 1.00 20.00
ATOM	1861	ND2 A		60.005	69.268 72.158	67.492	1.00 20.00
ATOM ATOM	1862 1863		YS 555 YS 555	59.774	72.307	66.076	1.00 20.00
ATOM	1864		YS 555	60.501	73.479	65.475	1.00 20.00
MOTA	1865		YS 555	60.788	74.475	66.138	1.00 20.00
ATOM	1866		YS 555	58.295		65.726	1.00 20.00
ATOM	1867		YS 555 LE 556	57.153 60.926		66.478 64.200	1.00 20.00
ATOM ATOM	1868 1869		LE 556 LE 556	61.457		63.404	1.00 20.00
MOTA	1870	_	LE 556	60.290		62.924	1.00 20.00
ATOM	1871		LE 556	60.341		62.877	1.00 20.00
ATOM	1872		LE 556	62.242		62.210	
ATOM	1873			62.951		61.457	
MOTA	1874		LE 556	61.312		61.328 60.716	
ATOM	1875	_	LE 556 3LN 557	62.039 59.210		62.533	
ATOM ATOM	1876 1877		LN 557	58.009		62.030	
ATOM	1878		LN 557	56.885	74.165		1.00 20.00
ATOM	1879	_	IN 557	57.118			
ATOM	1880		SLN 557				
ATOM	1881		GLN 557				
ATOM	1882		GLN 557 GLN 557				
ATOM ATOM	1883 1884						
			*				

ATOM	1885	N	CYS	558	55.629	74.610	62.174	1.00 20.00
ATO::	1886	CA	CYS	558	54.500	73.819	62.573	1.00 20.00
ATOM	1887		CYS	558	53.792	73.313	61.357	1.00 20.00
ATOM	1888	0	CYS	558 558	53.817 53.471	73.939 74.597	60.300 63.409	1.00 20.00
ATOM ATOM	1889 1890	CB SG	CYS CYS	558	54.165	75.235	64.962	1.00 20.00
ATOM:	1891	N	ALA	559	53.193	72.110	61.481	1.00 20.00
ATOM:	1892	CA	ALA	559	52.433	71.512	60.421	1.00 20.00
MOTA	1893	С	ALA	559	51.176	72.289	60.250	1.00 20.00
ATOM:	1894	0	ALA	559 550	50.742 52.042	72.573 70.055	59.131 60.721	1.00 20.00
ATOM	1895 1896	CB N	ALA HIS	559 560	50.557	72.673	61.384	1.00 20.00
ATOM ATOM	1897	CA	HIS	560	49.297	73.354	61.380	1.00 20.00
ATOM	1898	С	HIS	560	49.537	74.749	61.865	1.00 20.00
MOTA	1899	0	HIS	560	50.199	75.540	61.195 62.312	1.00 20.00
ATOM	1900	CB CG	HIS HIS	560 560	48.260 47.829	72.703 71.346	61.836	1.00 20.00
ATOM ATOM	1901 1902	ND1		560	48.565	70.196	62.010	1.00 20.00
ATOM	1903		HIS	560	46.704	70.969	61.168	1.00 20.00
ATOM	1904	CE1		560	47.856	69.187	61.443	1.00 20.00
MOTA	1905	NE2		560 561	46.718 48.982	69.609 75.094	60.918 63.045	1.00 20.00
ATOM ATOM	1906 1907	N CA	TYR TYR	561 561	49.080	76.440	63.536	1.00 20.00
ATOM	1908	C	TYR	561	49.975	76.468	64.736	1.00 20.00
ATOM	1909	0	TYR	561	49.969	75.545	65.548	1.00 20.00
ATOM:	1910	CB	TYR	561	47.728	77.000	64.014 62.878	1.00 20.00
ATOM.	1911 1912	CG CD1	TYR TYR	561 561	46.778 46.145	76.861 75.658	62.667	1.00 20.00
MOTA MOTA	1913	CD2		561	46.518	77.912	62.029	1.00 20.00
ATOM	1914	CEl		561	45.264	75.499	61.624	1.00 20.00
MOTA	1915	CE2		561	45.637	77.759	60.984 60.780	1.00 20.00 1.00 20.00
ATOM	1916	CZ	TYR TYP	561 561	45.010 44.107	76.553 76.394	59.708	1.00 20.00
ATOM ATOM	1917 1918	ОH И	TYR ILE	562	50.766	77.552	64.886	1.00 20.00
ATOM	1919	CA	ILE	562	51.630	77.640	66.027	1.00 20.00
ATOM	1920	С	ILE	562	50.986	78.554	67.021	1.00 20.00
ATOM	1921	0	ILE	562 562	50.464 53.000	79.608 78.178	66.661 65.724	1.00 20.00
MOTA MOTA	1922 1923	CB CG1	ILE	562	53.943	77.938	66.915	1.00 20.00
ATOM	1924	CG2		562	52.865	79.656	65.332	1.00 20.00
ATOM	1925		ILE	562	55.414	78.191	66.591	1.00 20.00 1.00 20.00
ATOM	1926	N CA	ASP ASP	563 563	50.977 50.359	78.148 78.961	68.306 69.312	1.00 20.00
ATOM ATOM	1927 1928	C	ASP	563	51.118	78.819	70.593	1.00 20.00
ATOM	1929	0	ASP	563	51.329	77.697	71.049	1.00 20.00
MOTA	1930	CB	ASP	563	48.917	78.525	69.625 70.722	1.00 20.00 1.00 20.00
ATOM	1931	CG	ASP ASP	563 563	48.364 48.956	79.426 80.511	70.959	1.00 20.00
ATOM ATOM	1932 1933	ODI	ASP	563	47.343	79.032	71.348	1.00 20.00
ATON	1934	N	GLY	564	51.509	79.966	71.206	1.00 20.00
ATOM	1935	CA	GLY	564	52.211	79.995	72.467	1.00 20.00
ATOM	1936	C	GLY GLY	564 564	53.301 53.162	78.980 77.898	72.392 72.958	1.00 20.00
MOTA MOTA	1937 1938	N O	PRO	565	54.393	79.407	71.797	1.00 20.00
ATOM	1939	CA	PRO	565	55.444	78.525	71.327	1.00 20.00
MOTA	1940	C	PRO	565	55.183	77.051	71.369	1.00 20.00
ATOM	1941	O	PRO PRO	565 565	56.038 56.737	76.285 78.955	71.810 72.028	1.00 20.00
ATOM ATOM	1942 1943	CB CG	PRO	565	56.299	80.027	73.038	1.00 20.00
ATOM	1944	CD	PRO	565	54.984	80.559	72.457	1.00 20.00
MOTA	1945		HIS	566	54.017	76.632	70.833	1.00 20.00
ATOM	1946			566 566	53.689 53.069			
MOTA MOTA	1947 1948		HIS HIS	566	52.273			
ATOM	1949		HIS	566	52.668	74.807		
ATOM	1950	CG		566	52.550			
ATOM	1951		1 HIS	566 566	53.361 51.688			
ATOM ATOM	1952 1953		2 HIS 1 HIS	566	52.953			
ATOM	1954		2 HIS	566	51.940	71.153	71.829	1.00 20.00
ATOM	1955	N	CYS	567	53.417			
ATOM	1956			567	52.825			
ATOM	1957		CYS CYS	567 567	51.523 51.485			
MOTA MOTA	1958 1959			567	53.639			
ATOM	1960		CYS	567	55.046	73.611		
ATOM	1961		VAL	568	50.416	73.658	67.340	1.00 20.00

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ATOM 1952 CA VAL 568 49.128 73.100 67.619 1.00 20.00 ATOM 1964 0 VAL 568 48.738 72.755 65.377 1.00 20.00 ATOM 1965 CB VAL 568 48.738 73.311 65.278 1.00 20.00 ATOM 1965 CB VAL 568 48.738 73.315 55.278 1.00 20.00 ATOM 1968 CB VAL 568 46.905 73.276 68.60C 1.00 20.00 ATOM 1969 CA LYS 569 47.655 71.664 66.351 1.00 20.00 ATOM 1970 C LYS 569 47.655 71.664 66.351 1.00 20.00 ATOM 1971 O LYS 569 45.938 72.055 ATOM 1971 O LYS 569 45.511 72.23 GLAR 1972 CB LYS 569 45.511 72.23 GLAR 1973 CB LYS 569 45.511 72.27 GLAR 1973 CB LYS 569 45.008 67.30 GLAR 1973 CB LYS 569 44.141 67.257 GLAR 1973 CB LYS 569 44.141 67.257 GLAR 1973 CB LYS 569 44.141 67.257 GLAR 1973 CB LYS 569 44.141 GLAR 1974 CB LYS 569 ATOM 1975 CB LYS 569 44.141 GLAR 1974 CB LYS 569 ATOM 1976 CB LYS 570 ATOM 1978 CB LYS 570										
ATOM 1963 C VAL 568 48.734 73.31 55.27 1.00 20.00 ATOM 1965 CB VAL 568 48.734 73.31 55.27 1.00 20.00 ATOM 1965 CB VAL 568 48.237 74.019 68.381 1.00 20.00 ATOM 1965 CB VAL 568 48.932 74.455 69.676 1.00 20.00 ATOM 1967 CG2 VAL 568 48.932 74.455 69.676 1.00 20.00 ATOM 1969 CA LYZ 569 46.930 71.150 65.220 1.00 20.00 ATOM 1969 CA LYZ 569 46.930 71.150 65.220 1.00 20.00 ATOM 1970 C LYS 569 46.930 71.150 65.220 1.00 20.00 ATOM 1971 C LYS 569 46.930 71.150 65.220 1.00 20.00 ATOM 1971 C LYS 569 45.938 72.235 63.648 1.00 20.00 ATOM 1971 C LYS 569 45.938 72.235 63.648 1.00 20.00 ATOM 1972 CB LYS 569 45.591 72.223 63.648 1.00 20.00 ATOM 1972 CB LYS 569 45.591 72.223 63.648 1.00 20.00 ATOM 1973 CB LYS 569 45.478 69.230 64.333 1.00 20.00 ATOM 1975 CE LYS 569 45.478 69.230 64.333 1.00 20.00 ATOM 1975 CE LYS 569 44.141 67.257 63.377 1.00 20.00 ATOM 1975 CE LYS 569 44.141 67.257 63.377 1.00 20.00 ATOM 1976 NZ LYS 569 44.141 67.257 63.377 1.00 20.00 ATOM 1976 NZ LYS 569 44.141 67.257 63.377 1.00 20.00 ATOM 1978 CA THR 570 44.127 73.68 66.823 1.00 20.00 ATOM 1978 CA THR 570 44.127 73.68 66.823 1.00 20.00 ATOM 1978 CA THR 570 44.127 73.68 66.823 1.00 20.00 ATOM 1978 CA THR 570 44.127 73.68 66.823 1.00 20.00 ATOM 1980 CB THR 570 42.771 72.494 66.798 1.00 20.00 ATOM 1981 CB THR 570 42.771 72.494 66.798 1.00 20.00 ATOM 1981 CB THR 570 42.771 72.494 66.798 1.00 20.00 ATOM 1981 CB THR 570 42.782 77.787 66.891 1.00 20.00 ATOM 1985 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1985 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1980 CB THR 570 42.782 77.786 66.81 1.00 20.00 ATOM 1980 CB CYS 571 42.741 72.494 66.798 1.00 20.00 ATOM 1980 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1980 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1980 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1980 CB CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1995 CB CYS 571 43.665 77.843 77.856 67.666 1.00 20.00 ATOM 1995 CB CYS 571 43.665 77.884 66.293 1.00 20.00 ATOM 1995 CB CYS 571 43.665 77.884 66.293 1.00 20.00 ATOM 1995 CB CYS 571 43.665 77.884 66.	7.004	1062	C n	V5.	568	4	128	73.100	67,619	1.00 20.00
ATOM 1964 O V.L. 568 48.734 73.341 65.278 1.00 20.00 ATOM 1965 CB V.L 568 46.905 73.276 68.605 1.00 20.00 ATOM 1966 CG V.L 568 46.905 73.276 68.605 1.00 20.00 ATOM 1976 CG LVS 569 47.655 71.654 66.635 1.00 20.00 ATOM 1970 C LVS 569 47.655 71.654 66.635 1.00 20.00 ATOM 1970 C LVS 569 45.838 72.095 64.828 1.00 20.00 ATOM 1970 C LVS 569 45.838 72.095 64.828 1.00 20.00 ATOM 1971 O LVS 569 45.930 71.506 68.625 1.00 20.00 ATOM 1973 CG LVS 569 46.930 71.2223 63.648 1.00 20.00 ATOM 1973 CG LVS 569 46.257 69.797 65.513 1.00 20.00 ATOM 1973 CG LVS 569 46.257 69.797 65.513 1.00 20.00 ATOM 1975 CC LVS 569 45.938 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1975 CC LVS 569 43.723 65.865 63.661 1.00 20.00 ATOM 1978 C TW 570 44.113 77.2738 65.863 1.00 20.00 ATOM 1980 O TW 570 44.127 74.693 66.581 1.00 20.00 ATOM 1980 O TW 570 44.127 74.693 66.581 1.00 20.00 ATOM 1980 O TW 570 44.127 74.693 66.581 1.00 20.00 ATOM 1981 CB TW 570 44.127 74.693 66.788 1.00 20.00 ATOM 1981 CB TW 570 44.127 77.186 64.475 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.661 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 74.502 67.668 1.00 20.00 ATOM 1981 CB TW 570 44.861 ATOM 1981 CB TW 570 44.861 ATO										
ATOM 1965 CB VXL 568 48,227 74,019 68,381 1.00 20.00										
ATOM 1986 CCI VAL 568										
ATCH 1967 COZ VIL 568										
ATOM 1948 I. IVS 569										
ATOM 1989 CA LY3 569	ATOM									
ATOM 1970 C LVS 569 ATOM 1971 O LVS 569 ATOM 1971 O LVS 569 ATOM 1972 CB LVS 569 ATOM 1972 CB LVS 569 ATOM 1973 CB LVS 569 ATOM 1974 CD LVS 569 ATOM 1975 CB LVS 569 ATOM 1976 CB LVS 569 ATOM 1977 N THE 570 ATOM 1978 CB LVS 569 ATOM 1978 CB LVS 569 ATOM 1979 C THE 570 ATOM 1979 C THE 570 ATOM 1989 CB TWS 569 ATOM 1980 CB TWS 570 ATOM 1980 CB TWS 571 ATOM 1980 CB TWS 572 ATOM 1990 CB TWS 573 ATOM 1990 CB TWS 574 ATOM 1990 CB TWS 574 ATOM 1990 CB TWS 575 ATOM 1990 CB TWS 574 ATOM 2001 CB TWS 574 ATOM 2001 CB TWS 575 ATOM 2001 CB TWS 574 ATOM 2002 CB TWS 577 ATOM 2002 CB TW	ATOM									
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ATOM 1973 CG LYS 569	ATOM:	1971	0	LYS						
ATOM 1974 CD LYS 569 45.008 67.788 64.523 1.00 20.00 ATOM 1976 NZ LYS 569 43.1723 65.865 63.367 1.00 20.00 ATOM 1978 NZ LYS 569 43.1723 65.865 63.367 1.00 20.00 ATOM 1978 CA THR 570 44.134 73.648 65.823 1.00 20.00 ATOM 1978 C THR 570 44.134 73.648 65.821 1.00 20.00 ATOM 1980 C THR 570 44.134 73.648 65.891 1.00 20.00 ATOM 1981 CB THR 570 42.777 74.693 65.508 1.00 20.00 ATOM 1982 CGI THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1982 CGI THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1984 N CYS 571 43.504 76.2920 66.798 1.00 20.00 ATOM 1986 C CYS 571 43.547 76.520 68.471 1.00 20.00 ATOM 1986 C CYS 571 43.547 76.520 68.471 1.00 20.00 ATOM 1987 O CYS 571 42.716 76.520 68.471 1.00 20.00 ATOM 1988 CB CYS 571 42.716 78.132 66.691 1.00 20.00 ATOM 1989 CB CYS 571 42.716 78.132 66.691 1.00 20.00 ATOM 1980 CB CYS 571 43.665 79.164 65.568 1.00 20.00 ATOM 1980 CB CYS 571 43.665 79.164 65.569 1.00 20.00 ATOM 1980 CB CYS 571 43.665 79.164 65.569 1.00 20.00 ATOM 1990 N PRO 572 43.235 77.006 68.973 1.00 20.00 ATOM 1991 CA PRO 572 41.430 77.693 70.456 1.00 20.00 ATOM 1992 C PRO 572 41.430 77.693 70.456 1.00 20.00 ATOM 1993 O PRO 572 41.430 77.693 70.456 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.456 1.00 20.00 ATOM 1996 CD CYS 571 41.479 77.075 70.493 1.00 20.00 ATOM 1997 O RES 572 44.693 77.075 71.902 1.00 20.00 ATOM 1998 CB CYS 571 43.480 77.693 70.456 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.456 1.00 20.00 ATOM 1996 CD RO 572 41.430 77.693 71.132 1.00 20.00 ATOM 1997 N ALA 573 39.307 77.707 70.493 1.00 20.00 ATOM 1998 CB CYS 574 44.693 77.315 66.690 1.00 20.00 ATOM 2000 C ALA 573 39.307 78.223 71.132 1.00 20.00 ATOM 2001 CB ALA 573 39.307 78.223 71.132 1.00 20.00 ATOM 2001 CB ALA 573 39.307 78.223 71.132 1.00 20.00 ATOM 2002 N GLY 574 40.498 77.315 66.691 1.00 20.00 ATOM 2003 CA GLY 575 41.493 82.376 68.366 69.285 1.00 20.00 ATOM 2004 C GLY 575 44.693 82.496 69.736 1.00 20.00 ATOM 2007 CA VAL 575 41.490 82.289 69.736 1.00 20.00 ATOM 2008 C ALA 575 41.490 82.289 69.736 1.00 20.00 ATOM 2010 CB ALA 573 39.307 77.700 A	ATOM	1972	CB	LYS	569					
ATOM 1975 CE LYS 569 43.008 67.788 64.523 1.00 20.00 ATOM 1976 NZ LYS 569 43.173 67.565 63.3671 1.00 20.00 ATOM 1977 N THR 570 44.134 73.648 65.517 1.00 20.00 ATOM 1978 C THR 570 44.134 73.648 65.517 1.00 20.00 ATOM 1978 C THR 570 44.134 73.648 65.517 1.00 20.00 ATOM 1980 O THR 570 44.127 74.693 65.508 1.00 20.00 ATOM 1981 CB THR 570 44.127 74.693 65.508 1.00 20.00 ATOM 1982 CG THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1982 CG THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1982 CG THR 570 42.787 73.003 65.508 1.00 20.00 ATOM 1983 CG THR 570 42.787 73.003 66.591 1.00 20.00 ATOM 1984 N CYS 571 43.456 76.920 66.793 1.00 20.00 ATOM 1985 CC CYS 571 43.476 76.920 66.273 1.00 20.00 ATOM 1986 CC CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1988 CF CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CF CYS 571 43.456 79.164 66.591 1.00 20.00 ATOM 1989 CF CYS 571 43.456 79.164 66.591 1.00 20.00 ATOM 1990 N CYS 572 42.619 76.788 79.166 65.591 1.00 20.00 ATOM 1991 CA PRO 572 41.450 77.693 70.856 1.00 20.00 ATOM 1992 C PRO 572 42.619 76.788 70.856 1.00 20.00 ATOM 1992 C PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.194 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.196 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.196 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.705 71.902 1.00 20.00 ATOM 1996 CD PRO 572 41.430 77.705 71.902 1.00 20.00 ATOM 1996 CD PRO 572 41.430 77.705 71.902 1.00 20.00 ATOM 1996 CD PRO 572 41.464 97.71315 69.690 1.00 20.00 ATOM 1996 CD PRO 572 41.469 77.315 69.690 1.00 20.00 ATOM 20.00 CR ALA 573 39.307 77.705 71.902 1.00 20.00 ATOM 20.00 CR ALA 573 39.307 78.232 71.131 1.00 20.00 ATOM 20.00 CR ALA 573 39.307 77.705 71.902 1.00 20.00 ATOM 20.00 CR ALA 575 39.308 66 79.625 72.367 1.00 20.00 ATOM 20.00 CR ALA 575 41.498 81.298 69.736 1.00 20.00 ATOM 20.00 CR ALA 575 41.498 81.298 69.736 1.00 20.00 ATOM 20.00 CR ALA 575 41.908 81.299 69.736 1.00 20.00 ATOM 20.00 CR ALA 57		1973	CG	LYS	569	4	5.478			
ATOM 1976 NZ LYS 569 44.141 67.257 63.377 1.00 20.00 ATOM 1976 NZ LYS 569 43.723 65.865 65.865 85.601 1.00 20.00 ATOM 1977 N THR 570 44.134 73.648 65.817 100 20.00 ATOM 1978 CA THR 570 44.134 73.648 65.517 1.00 20.00 ATOM 1980 0 THR 570 44.127 74.693 65.823 1.00 20.00 ATOM 1980 0 THR 570 44.164 74.502 65.517 1.00 20.00 ATOM 1981 CB THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1982 0G1 THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1983 CG2 THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1983 CG2 THR 570 42.471 72.494 66.798 1.00 20.00 ATOM 1985 CA CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1985 CA CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1987 0 CUS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1987 0 CUS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 CG PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1991 CA PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1991 CA PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1993 CR PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1993 CR PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 44.699 77.433 1.00 20.00 ATOM 1996 CD PRO 572 44.699 77.433 1.00 20.00 ATOM 1996 CD PRO 572 44.699 77.433 1.00 20.00 ATOM 1996 CD PRO 572 44.699 77.433 1.00 20.00 ATOM 1996 CD PRO 572 44.699 77.433 1.00 20.00 ATOM 1998 CA ALA 573 39.666 79.625 72.367 1.00 20.00 ATOM 1990 C ALA 573 39.666 79.625 72.367 1.00 20.00 ATOM 1990 C ALA 573 39.666 79.625 70.369 1.00 20.00 ATOM 2000 C ALA 575 39.404 89 77.433 1.891 1.00 20.00 ATOM 2000 C ALA 575 39.404 89 77.433 1.891 1.00 20.00 ATOM 2000 C ALA 575 39.404 89 77.433 1.891 1.00 20.00 ATOM 2001 CB		1974	CD	LYS	569	4	5.008			
ATOM 1976 NZ LYS 569 43.723 65.865 63.661 1.00 20.00 ATOM 1977 N THR 570 44.134 73.648 65.823 1.00 20.00 ATOM 1978 C THK 570 44.134 73.648 65.823 1.00 20.00 ATOM 1980 O THR 570 44.127 74.693 65.981 1.00 20.00 ATOM 1981 CB THR 570 44.127 74.693 65.598 1.00 20.00 ATOM 1981 CB THR 570 42.779 73.003 65.598 1.00 20.00 ATOM 1982 CG THR 570 42.779 73.003 65.598 1.00 20.00 ATOM 1982 CG THR 570 42.779 73.003 66.599 1.00 20.00 ATOM 1983 CG CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1984 N CYS 571 43.476 76.920 67.234 1.00 20.00 ATOM 1986 C CYS 571 43.476 76.920 66.93 1.00 20.00 ATOM 1988 CB CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1988 CB CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1988 CB CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 N REO 572 43.695 79.164 65.599 1.00 20.00 ATOM 1990 N REO 572 42.619 76.788 79.164 65.599 1.00 20.00 ATOM 1991 CB PRO 572 42.619 76.788 79.164 65.599 1.00 20.00 ATOM 1993 O PRO 572 42.619 76.788 70.856 1.00 20.00 ATOM 1993 O PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1996 CD PRO 572 41.430 77.693 70.150 1.00 20.00 ATOM 1996 CD PRO 572 44.649 77.315 69.690 1.00 20.00 ATOM 1996 CD PRO 572 44.649 77.315 69.690 1.00 20.00 ATOM 1997 N ALA 573 39.307 77.237 71.902 1.00 20.00 ATOM 1996 CD PRO 572 44.649 77.315 69.690 1.00 20.00 ATOM 1997 N ALA 573 39.307 77.822 71.961 1.00 20.00 ATOM 1996 CD PRO 572 44.649 77.315 69.690 1.00 20.00 ATOM 1997 N ALA 573 39.307 77.823 71.961 1.00 20.00 ATOM 2000 C ALA 573 39.307 77.823 71.961 1.00 20.00 ATOM 2001 CB ALA 573 39.307 77.833 71.881 1.00 20.00 ATOM 2001 CB ALA 573 39.307 77.833 71.881 1.00 20.00 ATOM 2001 CB ALA 575 39.308 68 79.885 71.310 1.00 20.00 ATOM 2001 CB ALA 575 39.308 68 79.885 71.310 1.00 20.00 ATOM 2001 CB ALA 575 39.308 68 79.885 71.310 1.00 20.00 ATOM 2001 CB ALA 575 39.308 68 79.885 71.310 1.00 20.00 ATOM 2002 C CA ATOM 2010 CB ATOM 2010 CB TT 576 41.986 81.899 69.756 1.00 20.00 ATOM 2010 CB ATOM 2010 CB TT 576 41.980 82.389			CE	LYS	569	4	4.141	67.257	63.377	
ATOM 1978 CA THE 570					569	4.	3.723	65.865	63.661	1.00 20.00
ATOM 1979 CA					570	4	5.197	72,738	65.823	
ATOM 1979 C THK 5700 44.127 74.693 66.591 1.00 20.00 ATOM 1981 CB THR 570 44.661 74.502 67.668 1.00 20.00 ATOM 1981 CB THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1983 CGZ THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1983 CGZ THR 570 42.771 72.494 66.799 1.00 20.00 ATOM 1984 N CYS 571 42.771 72.494 66.799 1.00 20.00 ATOM 1985 CA CYS 571 43.676 76.920 67.234 1.00 20.00 ATOM 1986 C CYS 571 43.476 76.920 67.234 1.00 20.00 ATOM 1987 0 CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 SG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 SG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1989 SG CYS 571 42.741 76.508 68.472 1.00 20.00 ATOM 1999 N PRO 572 43.235 77.006 69.573 1.00 20.00 ATOM 1990 N PRO 572 43.235 77.006 69.573 1.00 20.00 ATOM 1991 CA PRO 572 42.619 76.788 70.856 1.00 20.00 ATOM 1992 C PRO 572 41.430 77.693 70.895 1.00 20.00 ATOM 1993 OF RO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1993 OF RO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1993 CB PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CB PRO 572 41.430 77.693 70.943 1.00 20.00 ATOM 1995 CB PRO 572 41.430 77.693 70.856 1.00 20.00 ATOM 1995 CB PRO 572 44.798 77.693 71.392 1.00 20.00 ATOM 1995 CB PRO 572 44.649 77.075 71.902 1.00 20.00 ATOM 1995 CB PRO 572 44.649 77.075 71.902 1.00 20.00 ATOM 1998 CA ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 1998 CA ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 1998 CA ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 72.367 1.00 20.00 ATOM 2000 CB ALA 573 39.686 79.625 79.625 70.369 1.00 20.00 ATOM 2000 CB ALA 575 38.897 70.					570	4	4.134	73.648	65.517	1.00 20.00
ATOM 1980 O THR 570 44.661 74.502 67.668 1.00 20.00 ATOM 1981 CB THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1982 OGI THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1983 OGI THR 570 42.779 73.003 65.508 1.00 20.00 ATOM 1984 N CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1985 CA CYS 571 43.504 75.843 66.293 1.00 20.00 ATOM 1986 C CYS 571 43.504 76.508 68.472 1.00 20.00 ATOM 1987 O CYS 571 42.711 76.508 68.472 1.00 20.00 ATOM 1989 O CYS 571 42.716 76.508 68.472 1.00 20.00 ATOM 1989 O CYS 571 42.716 76.508 68.472 1.00 20.00 ATOM 1989 O CYS 571 42.716 76.508 68.472 1.00 20.00 ATOM 1989 O CYS 571 42.716 76.508 68.472 1.00 20.00 ATOM 1989 O CYS 571 42.716 76.508 68.472 1.00 20.00 ATOM 1989 O PRO 572 43.235 77.006 69.573 1.00 20.00 ATOM 1991 CA PRO 572 43.235 77.006 69.573 1.00 20.00 ATOM 1992 C PRO 572 41.340 77.693 70.943 1.00 20.00 ATOM 1993 O PRO 572 41.340 77.693 70.943 1.00 20.00 ATOM 1994 CB PRO 572 41.340 77.693 70.943 1.00 20.00 ATOM 1995 CG PRO 572 44.679 77.707 71.1902 1.00 20.00 ATOM 1996 CD PRO 572 44.679 77.707 71.1902 1.00 20.00 ATOM 1997 N ALA 573 40.498 77.823 71.132 1.00 20.00 ATOM 1998 CA ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 1999 C ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 1999 C ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 2000 N GLY 574 40.498 77.433 71.881 1.00 20.00 ATOM 2000 C ALA 573 39.668 79.625 72.367 1.00 20.00 ATOM 2000 C ALA 573 39.668 79.625 72.367 1.00 20.00 ATOM 2000 C ALA 573 39.668 79.625 72.367 1.00 20.00 ATOM 2000 C ALA 573 40.596 79.845 73.141 1.00 20.00 ATOM 2001 CB ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 2002 N GLY 574 40.421 83.788 71.331 1.00 20.00 ATOM 2003 CA GLY 574 40.421 83.788 71.331 1.00 20.00 ATOM 2005 C GLY 574 40.421 83.788 71.331 1.00 20.00 ATOM 2001 CB ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 2005 C GLY 574 40.421 83.788 71.331 1.00 20.00 ATOM 2010 CB WAL 575 40.903 81.741 71.505 1.00 20.00 ATOM 2010 CB WAL 575 40.903 81.741 71.505 1.00 20.00 ATOM 2010 CB WAL 575 40.903 81.741 71.00 20.00 ATOM 2010 CB WAL 575 40.903 81.741 71.00 20.00 ATOM 2010					570	4	4.127	74.693	66.581	1.00 20.00
ATOM 1981 CB THR 570								74.502	67.668	1.00 20.00
ATOM 1982 OGI THE 570									65.508	1.00 20.00
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ATOM 1995 CG PRO 572		1994	CB	PRO	572	4	3.697			
ATOM 1996 CD PRO 572				PRO	572	4	14.798	77.823		
ATOM 1997 N ALA 573					572	4	14.649	77.315	69.690	
ATOM 1998 CA ALA 573 39.307 78.232 71.961 1.00 20.00 ATOM 2000 O ALA 573 39.668 79.625 72.367 1.00 20.00 ATOM 2001 CB ALA 573 38.277 77.700 72.974 1.00 20.00 ATOM 2002 N GLY 574 38.937 80.611 71.805 1.00 20.00 ATOM 2003 CA GLY 574 39.109 81.993 72.150 1.00 20.00 ATOM 2003 CA GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2005 O GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2006 N VAL 575 40.903 81.741 70.531 1.00 20.00 ATOM 2007 CA VAL 575 41.961 81.875 68.326 1.00 20.00 ATOM 2009 O VAL 575 41.961 81.875 68.326 1.00 20.00 ATOM 2009 O VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2011 CGI VAL 575 43.302 81.755 70.158 1.00 20.00 ATOM 2011 CGI VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2011 CGI VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2011 CGI VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2012 CG2 VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2014 CA MET 576 44.580 82.203 71.660 1.00 20.00 ATOM 2015 C MET 576 41.583 82.424 65.978 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.123 1.00 20.00 ATOM 2015 C MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2017 CB MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2017 CB MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2017 CB MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2021 CG GLY 577 42.786 81.678 40.00 20.00 ATOM 2022 CG GLY 577 42.786 81.678 40.00 20.00 ATOM 2022 CG GLY 578 45.547 84.629 61.705 1.00 40.00 ATOM 2022 CG GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2022 CG GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2022 CG GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2023 CG GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2033 CC GLU 578 45.547 84.629 59.571 1.00 60.00 ATOM 2033 CC GLU 578 45.547 84.629 59.571 1.00 60.00 ATOM 2033 CC GLU 578 45.542 87.542 88.88 88.162 61.816 1.100 40.00 ATOM 2033 CC GLU 578 45.542 87.573					573	4	10.498	77.433	71.881	1.00 20.00
ATOM 2000 O ALA 573						3	39.307	78.232	71.961	1.00 20.00
ATOM 2000 O ALA 573						1	39.668	79.625	72.367	1.00 20.00
ATOM 2001 CB ALA 573 38.277 77.700 72.974 1.00 20.00 ATOM 2002 N GLY 574 38.937 80.611 71.805 1.00 20.00 ATOM 2003 CA GLY 574 39.109 81.993 72.150 1.00 20.00 ATOM 2005 O GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2006 N VAL 575 40.903 81.741 70.531 1.00 20.00 ATOM 2006 C VAL 575 41.961 82.289 69.736 1.00 20.00 ATOM 2009 O VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2010 CB VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2011 CG1 VAL 575 43.302 81.755 70.158 1.00 20.00 ATOM 2012 CG2 VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2012 CG2 VAL 575 41.961 82.289 67.334 1.00 20.00 ATOM 2012 CG2 VAL 575 41.968 82.030 71.660 1.00 20.00 ATOM 2012 CG2 VAL 575 41.968 82.030 71.660 1.00 20.00 ATOM 2012 CG2 VAL 575 41.988 82.030 71.660 1.00 20.00 ATOM 2012 CG VAL 575 41.988 82.030 71.660 1.00 20.00 ATOM 2012 CG VAL 575 41.988 82.030 71.660 1.00 20.00 ATOM 2012 CG VAL 575 42.802 82.464 65.978 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.123 1.00 20.00 ATOM 2015 C MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2018 C MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2018 CG MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 38.885 84.044 63.171 1.00 20.00 ATOM 2019 N GLY 577 42.786 81.678 64.039 1.00 20.00 ATOM 2021 CG MET 576 38.885 84.044 63.171 1.00 20.00 ATOM 2022 CA GLY 577 42.786 81.678 64.039 1.00 20.00 ATOM 2022 CA GLY 577 42.786 81.678 64.039 1.00 20.00 ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2022 C GLU 578 45.578 45.577 83.321 59.729 1.00 40.00 ATOM 2022 C GLU 578 45.578 45.579 83.321 59.729 1.00 40.00 ATOM 2023 C GLU 578 45.578 45.579 83.321 59.729 1.00 40.00 ATOM 2030 C GLU 578 46.697 84.697 61.414 1.00 40.00 ATOM 2030 C GLU 578 46.697 84.697 61.414 1.00 40.00 ATOM 2030 CG GLU 578 46.697 84.697 61.414 1.00 40.00 ATOM 2030 CG GLU 578 46.697 85.442 87.373 57.943 1.00 60.00 ATOM 2031 CD GLU 578 48.604 86.997 61.414 1.00 40.00 ATOM 2033 CD GLU 578 48.604 86.997 61.414 1.00 40.00 ATOM 2030 CG GLU 578 48.604 86.997 61.414 1.00 40.00 ATOM 2033 CA								79.845	73.141	1.00 20.00
ATOM 2002 N GLY 574 38.937 80.611 71.805 1.00 20.00 ATOM 2003 CA GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2004 C GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2006 N VAL 575 40.903 81.741 70.531 1.00 20.00 ATOM 2007 CA VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2008 C VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2009 O VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2010 CB VAL 575 43.302 81.755 70.158 1.00 20.00 ATOM 2011 CG1 VAL 575 43.302 81.755 70.158 1.00 20.00 ATOM 2011 CG1 VAL 575 43.480 82.336 69.285 1.00 20.00 ATOM 2012 CG2 VAL 575 43.480 82.336 69.285 1.00 20.00 ATOM 2013 N MET 576 41.583 82.424 65.978 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.978 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.123 1.00 20.00 ATOM 2017 CB MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2018 CG MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2018 CG MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.566 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.566 80.566 80										1.00 20.00
ATOM 2003 CA GLY 574										1.00 20.00
ATOM 2004 C GLY 574 40.195 82.578 71.310 1.00 20.00 ATOM 2006 N VAL 575 40.903 81.741 70.531 1.00 20.00 ATOM 2007 CA VAL 575 41.961 82.289 69.736 1.00 20.00 ATOM 2009 O VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2010 CB VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2011 CG1 VAL 575 43.302 81.755 70.158 1.00 20.00 ATOM 2012 CG2 VAL 575 43.480 82.030 71.660 1.00 20.00 ATOM 2013 N MET 576 41.928 82.748 67.334 1.00 20.00 ATOM 2014 CA MET 576 41.583 82.424 65.978 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.123 1.00 20.00 ATOM 2016 O MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2017 CB MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2018 CG MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 38.885 84.044 63.171 1.00 20.00 ATOM 2020 CE MET 576 38.885 84.044 63.171 1.00 20.00 ATOM 2021 N GLY 577 42.786 81.678 64.039 1.00 20.00 ATOM 2021 N GLY 577 42.786 81.678 64.039 1.00 20.00 ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2023 C GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2023 C GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2023 C GLY 577 43.921 81.593 62.474 1.00 20.00 ATOM 2022 CA GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2022 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2020 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2022 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2020 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2020 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2020 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2020 CB GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2023 CG GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 CB GLU 578 48.604 86.987 57.439										1.00 20.00
ATOM 2005 O GLY 574 40.421 83.788 71.337 1.00 20.00 ATOM 2007 CA VAL 575 41.961 82.289 69.736 1.00 20.00 ATOM 2008 C VAL 575 41.961 82.289 69.736 1.00 20.00 ATOM 2008 C VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2008 C VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2010 CB VAL 575 41.649 81.875 68.326 1.00 20.00 ATOM 2011 CG1 VAL 575 44.033 82.365 69.285 1.00 20.00 ATOM 2012 CG2 VAL 575 44.403 82.365 69.285 1.00 20.00 ATOM 2013 N MET 576 44.808 82.030 71.660 1.00 20.00 ATOM 2013 N MET 576 41.928 82.748 67.334 1.00 20.00 ATOM 2015 C MET 576 42.802 82.464 65.978 1.00 20.00 ATOM 2016 C MET 576 42.802 82.464 65.123 1.00 20.00 ATOM 2016 C MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2019 SD MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.382 65.350 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.3885 84.044 63.171 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.3885 84.044 63.171 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.3885 84.044 63.171 1.00 20.00 ATOM 2020 CE MET 576 40.556 83.3885 84.044 63.171 1.00 20.00 ATOM 2020 CE MET 576 40.60 MET 40.00 ME										
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ATOM 2019 SD MET 576 38.885 84.044 63.171 1.00 20.00 ATOM 2021 N GLY 577 42.786 81.678 64.030 1.00 20.00 ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2023 C GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 C GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2036 C ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2036 C ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00	ATOM	2017	CB							
ATOM 2020 CE MET 576 37.528 83.205 64.039 1.00 20.00 ATOM 2021 N GLY 577 42.786 81.678 64.030 1.00 20.00 ATOM 2022 CA GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2024 O GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 O GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 48.818 88.162 61.816 1.00 40.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2036 C ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00	MOTA	2018	CG	MET						
ATOM 2021 N GLY 577 42.786 81.678 64.030 1.00 20.00 ATOM 2022 CA GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2024 O GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 O GLU 578 45.547 84.629 60.256 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00	MOTA	2019	SD	MET						
ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2023 C GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 O GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00	ATOM	2020) CE	MET	576					
ATOM 2022 CA GLY 577 43.921 81.593 63.165 1.00 20.00 ATOM 2023 C GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2024 O GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.290 84.395 60.256 1.00 40.00 ATOM 2028 O GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2029 CB GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00	ATOM	2021	N	GLY	5 7 7					
ATOM 2023 C GLY 577 44.090 82.900 62.474 1.00 20.00 ATOM 2024 O GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 O GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00		2022	CA	GLY	577		43.921			
ATOM 2024 O GLY 577 43.127 83.494 61.989 1.00 20.00 ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2027 C GLU 578 45.547 84.395 60.256 1.00 40.00 ATOM 2028 O GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2037 O ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00		2023	3 C	GLY	577		44.090	82.900		
ATOM 2025 N GLU 578 45.343 83.379 62.371 1.00 40.00 ATOM 2027 C GLU 578 45.290 84.395 60.256 1.00 40.00 ATOM 2029 CB GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2030 CG GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2034 N ASN 579 48.818 88.162 61.816 1.00 40.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00				GLY	577		43.127	83.494	61.989	
ATOM 2026 CA GLU 578 45.547 84.629 61.705 1.00 40.00 ATOM 2028 O GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2031 CD GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2032 OE1 GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2033 OE2 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.235 58.178 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.422 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 O					578		45.343	83.379		
ATOM 2027 C GLU 578 45.290 84.395 60.256 1.00 40.00 ATOM 2028 O GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00					578		45.547	84.629		
ATOM 2028 O GLU 578 45.577 83.321 59.729 1.00 40.00 ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00					578		45.290	84.395	60.256	
ATOM 2029 CB GLU 578 46.973 85.187 61.850 1.00 40.00 ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 OO.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 OO.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 OO.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 OO.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 OO.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00							45.577			
ATOM 2030 CG GLU 578 47.160 86.558 61.196 1.00 40.00 ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00									61.850	
ATOM 2031 CD GLU 578 48.604 86.987 61.414 1.00 40.00 ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00									61.196	1.00 40.00
ATOM 2032 OE1 GLU 578 49.512 86.143 61.187 1.00 40.00 ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										1.00 40.00
ATOM 2033 OE2 GLU 578 48.818 88.162 61.816 1.00 40.00 ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										
ATOM 2034 N ASN 579 44.716 85.402 59.571 1.00 60.00 ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										
ATOM 2035 CA ASN 579 44.440 85.235 58.178 1.00 60.00 ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										
ATOM 2036 C ASN 579 45.210 86.275 57.439 1.00 60.00 ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										
ATOM 2037 O ASN 579 45.442 87.373 57.943 1.00 60.00										
ATOM 2007 0 100 000 00 000 000 000 000 000 000										
ATUM 2006 CB ASN 375 42.936 65112. 511022 2166 65105										
	ATOM	203	U CE	, 4214	5,5					

ATON	2039	CG	ASN	579	42.172	84.264	58.397	1.00 60.00
ATOM	2040	OD1	ASN	579	42.729	83.211	58.705	1.00 60.00
ATOM	2041	ND2	ASN	579	40.834	84.454	58.548	1.00 60.00
MOTA	2042	N	ASN	580	45.637	85.936	56.210	1.00 60.00
MOTA	2043	CA	ASN	580	46.365	86.867	55.405	1.00 60.00
ATOM	2044	C	ASN	580	45.562	87.066	54.165	1.00 60.00
ATOM	2045	0	ASN	580	44.794	86.193	53.764	1.00 60.00
ATOM	2046	CB	ASN	580	47.759	86.367	54.990	1.00 60.00
ATOM	2047	CG	ASN	580	48.640	86.362	56.231	1.00 60.00
ATOM	2048	OD1	ASN	580	48.848	87.397	56.864	1.00 60.00
ATOM	2049	ND2	ASN	580	49.170	85.165	56.599	1.00 60.00
ATOM	2050	N	THR	581	45.706	88.244	53.532 52.352	1.00 60.00
ATOM	2051	CA	THR	581	44.944 45.336	88.510 87.507	51.321	1.00 60.00
ATOM	2052	C	THR	581 581	44.483	86.912	50.665	1.00 60.00
ATOM	2053 2054	O CB	THR THR	581	45.206	89.875	51.789	1.00 60.00
ATOM	2055	OG1	THR	581	46.569	90.000	51.416	1.00 60.00
ATOM ATOM	2056	CG2	THE	581	44.852	90.922	52.860	1.00 60.00
ATOM	2057	N	LEU	582	46.653	87.277	51.164	1.00 60.00
ATOM	2058	CA	LEU	582	47.091	86.320	50.194	1.00 60.00
ATOM	2059	С	LEU	582	46.855	84.968	50.770	1.00 60.00
ATOM	2060	Ō	LEU	582	46.752	84.807	51.986	1.00 60.00
ATOM	2061	CB	LEU	582	48.588	86.413	49.847	1.00 60.00
ATOM	2062	CG	LEU	582	48.995	87.727	49.151	1.00 60.00
ATOM	2063	CD1	LEU	582	48.324	87.865	47.776	1.00 60.00
ATOM	2064	CD2	LEU	582	48.762	88.942	50.062	1.00 60.00
MOTA	2065	N	VAL	583	46.742	83.951	49.896	1.00 60.00
ATOM	2066	CA	VAL	583	46.540	82.620	50.376	1.00 60.00
ATOM	2067	С	VAL	583	47.867	81.945	50.317	1.00 60.00 1.00 60.00
ATOM	2068	0	VAL	583	48.581	82.039	49.319 49.550	1.00 60.00
MOTA	2069	CB	VAL	583	45.575 46.137	81.819 81.681	48.124	1.00 60.00
ATOM	2070 2071	CG1 CG2		583 583	45.334	80.474	50.254	1.00 60.00
ATOM	2072	N N	TRP	584	48.250	81.263	51.412	1.00 60.00
ATOM ATOM	2073	CA	TRP	584	49.530	80.628	51.419	1.00 60.00
ATOM	2074	c .	TRP	584	49.379	79.268	50.829	1.00 60.00
ATOM	2075	Õ	TRP	584	48.339	78.624	50.967	1.00 60.00
ATOM	2076	CB	TRP	584	50.140	80.483	52.819	1.00 60.00
ATOM	2077	CG	TRP	584	50.459	81.808	53.468	1.00 60.00
ATOM	2078	CD1		584	49.828	82.439	54.500	1.00 60.00
ATOM	2079	CD2	TRP	584	51.521	82.679	53.047	1.00 60.00
ATOM	2080	NEl	TRP	584	50.435	83.646	54.753	1.00 60.00
MOTA	2081	CE2		584	51.476	83.808	53.865	1.00 60.00
MOTA	2082	CE3		584	52.453	82.551	52.058	1.00 60.00 1.00 60.00
ATOM	2083	CZ2		584	52.368	84.830	53.706 51.903	1.00 60.00
ATOM	2084	CZ3		584	53.353 53.311	83.582 84.699	52.710	1.00 60.00
ATOM ATOM	2085 2086	CH2 N	TRP LYS	584 585	50.430	78.812	50.126	1.00 60.00
ATOM	2087	CA	LYS	585	50.401	77.536	49.481	1.00 60.00
ATOM	2088	c.	LYS	585	50.330	76.447	50.502	1.00 60.00
ATOM	2089	ŏ	LYS	585	49.544	75.513	50.356	1.00 60.00
ATOM	2090	СВ	LYS	585	51.648	77.271	48.620	1.00 60.00
ATOM	2091	CG	LYS	585	51.717	78.119	47.347	1.00 60.00
ATOM	2092	CD	LYS	585	50.561	77.861	46.378	1.00 60.00
MOTA	2093	CE	LYS	585	50.624	78.707	45.105	1.00 60.00
ATOM	2094	NZ	LYS	585	50.489	80.141	45.444	1.00 60.00
ATOM	2095	N	TYR	586	51.139	76.529	51.577	1.00 60.00 1.00 60.00
ATOM	2096	CA	TYR	586	51.131	75.411	52.473	1.00 60.00
ATOM	2097	C	TYR	586	51.541 51.345	75.835 76.975	53.848 54.267	1.00 60.00
ATOM	2098	0	TYR	586	52.101	74.294	52.050	1.00 60.00
ATOM	2099	CB CG	TYR TYR	586 586	51.639	73.778	50.731	1.00 60.00
ATOM ATOM	2100 2101	CD:		586	50.620	72.855	50.658	1.00 60.00
ATOM	2102		2 TYR	586	52.227	74.214	49.565	1.00 60.00
ATOM	2103			586	50.192	72.378	49.442	1.00 60.00
ATOM	2104	CE		586	51.804	73.741	48.346	1.00 60.00
ATOM	2105		TYR	586	50.784	72.822	48.283	1.00 60.00
ATOM	2106		TYR	586	50.347	72.333	47.033	1.00 60.00
MOTA	2107		ALA	587	52.121	74.860	54.576	
ATOM	2108		ALA	587	52.573	74.951	55.933	
ATOM	2109		ALA	587	53.640	75.987	56.000	
ATOM	2110		ALA	587	53.895	76.560	57.057	1.00 60.00
ATOM	2111		ALA	587	53.162	73.631 76.249	56.454 54.857	
ATOM	2112		ASP ASP	588 588	54.295 55.344	77.220	54.795	
ATOM ATOM	2113 2114		ASP	588	54.762	78.493	55.316	
ATOM	2115		ASP	588	55.465	79.320		
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ATOM	2116	СВ	ASP	588	55.828	77.482	53.359	1.00 60.00
ATOM	2117	CG	ASP	588	56.540	76.233	52.853	1.00 60.00
ATOM	2118	ODI	ASP	588	56.754	75.301	53.675	1.00 60.00
ATOM	2119	OD2	ASP	588	56.872	76.190	51.639	1.00 60.00
ATOM	2120	N	ALA	589	53.442	78.671	55.134	1.00 60.00
ATOM	2121	CA	ALA	589	52.783	79.858	55.590	1.00 60.00
MOTA	2122	С	ALA	589	53.064	80.002	57.050	1.00 60.00
ATOM	2123	0	ALA	589	53.375	81.096	57.519	1.00 60.00
ATOM	2124	СВ	ALA	589	51.255	79.775 78.897	55.450 57.812	1.00 60.00
ATOM	2125	N	GLY GLY	590 590	52.983 53.267	79.002	59.213	1.00 60.00
ATOM	2126 2127	CA C	GLY	590	52.138	79.727	59.867	1.00 60.00
ATOM ATOM	2128	0	GLY	590	52.347	80.690	60.605	1.00 60.00
ATOM	2129	N	HIS	591	50.899	79.280	59.599	1.00 60.00
MOTA	2130	CA	HIS	591	49.751	79.919	60.168	1.00 60.00
ATOM	2131	С	HIS	591	49.902	79.896	61.655	1.00 60.00
ATOM	2132	0	HIS	591	50.347	78.908	62.237	1.00 60.00
ATOM	2133	CB	HIS	591	48.433	79.207	59.822	1.00 60.00
ATOM	2134	CG	HIS	591	48.187	79.128	58.346	1.00 60.00
MOTA	2135		HIS	591	48.714	78.152	57.529	1.00 60.00
MOTA	2136		HIS	591	47.455	79.938	57.532	1.00 60.00
ATOM	2137	CE1	HIS	591	48.277	78.415	56.272	1.00 60.00
ATOM	2138	NE2		591	47.509 49.535	79.490 81.017	56.224 62.305	1.00 40.00
MOTA	2139	N	VAL	592 592	49.640	81.132	63.730	1.00 40.00
ATOM	2140	CA	VAL VAL	592	48.276	81.467	64.234	1.00 40.00
ATOM	2141 2142	С 0	VAL	592	47.414	81.895	63.467	1.00 40.00
ATOM ATOM	2143	СВ	VAL	592	50.554	82.238	64.164	1.00 40.00
ATOM	2144	CG1		592	51.975	81.924	63.670	1.00 40.00
ATOM	2145	CG2		592	49.999	83.563	63.620	1.00 40.00
ATOM	2146	N	CYS	593	48.030	81.264	65.544	1.00 20.00
MOTA	2147	CA	CYS	593	46.725	81.565	66.036	1.00 20.00
ATOM	2148	С	CYS	593	46.860	82.778	66.911	1.00 20.00
ATOM	2149	0	CYS	593	47.823	82.899	67.666	1.00 20.00
ATOM	2150	CB	CYS	593	46.131	80.416	66.864	1.00 20.00
MOTA	2151	SG	CYS	593	44.332	80.552	66.886 66.811	1.00 20.00
ATOM	2152	N	HIS	594	45.905 45.983	83.729 84.931	67.595	1.00 20.00
ATOM	2153	CA	HIS	594 594	44.693	85.136	68.325	1.00 20.00
ATOM	2154	0	HIS HIS	594	43.649	84.625	67.926	1.00 20.00
ATOM ATOM	2155 2156	CB	HIS	594	46.256	86.197	66.765	1.00 20.00
ATOM	2157	CG	HIS	594	47.645	86.226	66.200	1.00 20.00
ATOM	2158		HIS	594	48.743	86.699	66.882	1.00 20.00
ATOM	2159		HIS	594	48.109	85.821	64.986	1.00 20.00
ATOM	2160	CE1	HIS	594	49.808	86.558	66.054	1.00 20.00
ATOM	2161	NE2	HIS	594	49.473	86.031	64.892	1.00 20.00
ATOM	2162	И	LEU	595	44.747	85.910	69.426	1.00 20.00
ATOM	2163	CA	LEU	595	43.613	86.140	70.278	1.00 20.00
ATOM	2164	C	LEU	595	42.596	86.943 87.735	69.557 68.669	1.00 20.00
ATOM	2165	0	LEU	595 595	42.911 43.970	86.903	71.565	1.00 20.00
ATOM	2166	CB	LEU	595	44.979	86.165	72.460	1.00 20.00
ATOM	2167 2168	CD.	LEU	595	45.296	86.970	73.730	1.00 20.00
ATOM ATOM	2169		2 LEU	595	44.522	84.731	72.758	1.00 20.00
ATOM	2170	N.	CYS	596	41.319	86.724	69.922	1.00 20.00
ATOM	2171	CA	CYS	596	40.264	87.490	69.344	1.00 20.00
ATOM	2172	C	CYS	596	39.852	88.447	70.418	1.00 20.00
MOTA	2173	0	CYS	596	39.751	88.078	71.586	1.00 20.00
MOTA	2174	CB	CYS	596	39.065	86.636	68.890	1.00 20.00
ATOM	2175	SG	CYS	596	37.811	87.561	67.948	1.00 20.00
ATOM	2176		HIS	597	39.630	89.722	70.048	1.00 20.00
ATOM	2177		HIS	597	39.306	90.720	71.027 71.647	1.00 20.00
ATOM	2178		HIS	597	37.999 37.160	90.354 89.701	71.033	1.00 20.00
MOTA	2179		HIS	597	39.201	92.134	70.430	1.00 20.00
ATOM	2180		HIS	597 597	38.981	93.202	71.456	1.00 20.00
ATOM ATOM	2181 2182		1 HIS	597	39.845	93.457	72.497	1.00 20.00
ATOM	2183		2 HIS	597	37.971	94.104	71.583	
ATOM	2184		1 HIS	597	39.319	94.493	73.196	
ATOM	2185		2 HIS	597	38.181	94.920	72.680	1.00 20.00
ATOM	2186		PRO	598	37.823		72.880	
ATOM	2187			598	36.602		73.560	
ATOM	2188	C	PRO	598	35.445		73.019	
ATOM	2189		PRO	598	34.314	90.732	73.154	
ATOM	2190			598	36.875		75.052 75.109	
ATOM	2191			598 598	38.248 38.932			
ATOM	2192	2 CE	PRO	330	20.224	55.050		1.00 20.00

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n most	2193	::	ASN	599	35.692	92.390	72.448	1.00 20.00
MOTA				599	34.620	93.172	71.902	1.00 20.00
ATOM	2194		ASN			92.537	70.643	1.00 20.00
MOTA	2195		ASN	599	34.122			1.00 20.00
MOTA	2196		ASN	599	32.917	92.417	70.434	
ATOM	2197		ASN	599	35.028	94.615	71.556	1.00 20.00
ATOM:	2198		ASN	599	35.318	95.347	72.859	1.00 20.00
ATOM	2199	CDl	ASN	599	34.984	94.867	73.942	1.00 20.00
ATOM:	2200	ND2	ASN	599	35.951	96.546	72.755	1.00 20.00
MOTA	2201	17	CYS	600	35.043	92.082	69.771	1.00 20.00
ATOM	2202	CA	CYS	600	34.608	91.561	68.509	1.00 20.00
ATOM	2203	0	CYS	600	33.767	90.362	68.773	1.00 20.00
ATOM	2204	Ō	CYS	600	33.836	89.762	69.845	1.00 20.00
	2205	ĊВ	CYS	600	35.743	91.107	67.573	1.00 20.00
ATOM	2206	SG	CYS	600	36.923	92.422	67.157	1.00 20.00
MOTA			THR	601	32.911	90.007	67.797	1.00 20.00
ATOM	2207	1:		601	32.099	88.846	67.972	1.00 20.00
ATOM	2208	CA	THR			88.032	66.721	1.00 20.00
ATOM	2209	C	THR	601	32.181		65.620	1.00 20.00
ATOM	2210	C	THR	601	32.335	88.561		
MOTA	2211	CB	THR	601	30.652	89.158	68.217	
ATOM	2212	OG1	THR	601	30.095	89.826	67.095	1.00 20.00
ATOM	2213	CG2	THR	601	30.549	90.046	69.469	1.00 20.00
ATOM	2214	11	TYR	602	32.100	86.700	66.886	1.00 20.00
ATOM	2215	CA	TYR	602	32.070	85.753	65.812	1.00 20.00
ATOM	2216	С	TYR	602	33.273	85.827	64.922	1.00 20.00
ATOM	2217	0	TYR	602	33.163	85.523	63.737	1.00 20.00
ATOM	2218	CB	TYR	602	30.813	85.878	64.933	1.00 20.00
	2219	CG	TYR	602	29.647	85.457	65.761	1.00 20.00
ATOM				602	29.350	84.122	65.912	1.00 20.00
ATOM	2220	CD1			28.851	86.390	66.383	1.00 20.00
ATOM	2221		TYR	602			66.672	1.00 20.00
ATOM	2222	CE1	TYR	602	28.277	83.722		1.00 20.00
MOTA	2223	CE2	TYR	602	27.775	85.997	67.145	
MOTA	2224	CZ	TYR	602	27.488	84.660	67.289	1.00 20.00
ATOM	2225	ОН	TYR	602	26.385	84.253	68.070	1.00 20.00
MOTA	2226	N	GLY	603	34.459	86.213	65.434	1.00 20.00
ATOM	2227	CA	GLY	603	35.588	86.115	64.549	1.00 20.00
MOTA	2228	С	GLY	603	36.486	87.304	64.674	1.00 20.00
ATOM	2229	0	GLY	603	36.071	88.380	65.101	1.00 20.00
ATOM	2230	N	CYS	604	37.769	87.113	64.288	1.00 20.00
ATOM	2231	CA	CYS	604	38.732	88.176	64.298	1.00 20.00
ATOM	2232	c	CYS	604	39.680		63.155	1.00 20.00
ATOM	2233	Õ	CYS	604	40.163		62.911	1.00 20.00
	2234	CB	CYS	604	39.619		65.558	1.00 20.00
ATOM		SG	CYS	604	38.876		67.014	1.00 20.00
ATOM	2235		THR	605	39.943		62.398	1.00 20.00
ATOM	2236	<i>y</i> .			40.928		61.358	1.00 20.00
ATOM	2237	CA	THR	605			62.047	1.00 20.00
ATOM	2238	С	THR	605	42.250		61.654	1.00 20.00
MOTA	2239	0	THR	605	43.123			1.00 20.00
MOTA	2240	CB	THR	605	40.941		60.520	
ATOM	2241	OG1		605	41.253		61.322	1.00 20.00
MOTA	2242	CG2	THR	605	39.556		59.874	1.00 20.00
MOTA	2243	N	GLY	606	42.403	89.706	63.126	1.00 20.00
ATOM	2244	CA	GLY	606	43.605	89.745	63.903	1.00 20.00
ATOM	2245	С	GLY	606	43.221	90.378	65.198	1.00 20.00
ATOM	2246	0	GLY	606	42.042	90.614	65.456	1.00 20.00
ATOM	2247	N	PRO	607	44.177	90.654	66.036	
ATOM	2248	CA	PRO	607	43.86		67.288	1.00 20.00
ATOM	2249	C	PRO	607	43.55		67.061	1.00 20.00
	2250	0	PRO	607	44.089		66.113	1.00 20.00
ATOM	2251	CB	PRO	607	45.05		68.209	1.00 20.00
ATOM				607	46.163		67.279	1.00 20.00
ATOM	2252	CG	PRO		45.38		66.116	1.00 20.00
ATOM	2253		PRO	607			67.908	1.00 20.00
ATOM	2254	N	GLY	608	42.69		67.751	1.00 20.00
ATOM	2255		GLY	608	42.38			
MOTA	2256		GLY	608	40.92		67.505	1.00 20.00
ATOM	2257	0	GLY	608	40.26		67.037	1.00 20.00
ATOM	2258		LEU	609	40.37		67.826	1.00 20.00
ATOM	2259	CA	LEU	609	38.99		67.647	1.00 20.00
ATOM	2260		LEU	609	38.72		66.177	1.00 20.00
ATOM	2261		LEU	609	37.66	1 95.926	65.719	
ATOM	2262			609	38.63		68.158	1.00 20.00
ATOM	2263			609	38.90		69.660	1.00 20.00
ATOM	2264		1 LEU	609	40.40			1.00 20.00
ATOM	2265		2 LEU	609	38.27			
	2266		GLU	610	39.72			
MOTA				610	39.64			
ATOM ATOM	2267 2268		GLU	610	39.47			
ATOM			GLU	610	38.82			
ATOM	2269	, ,	-110		23.02			

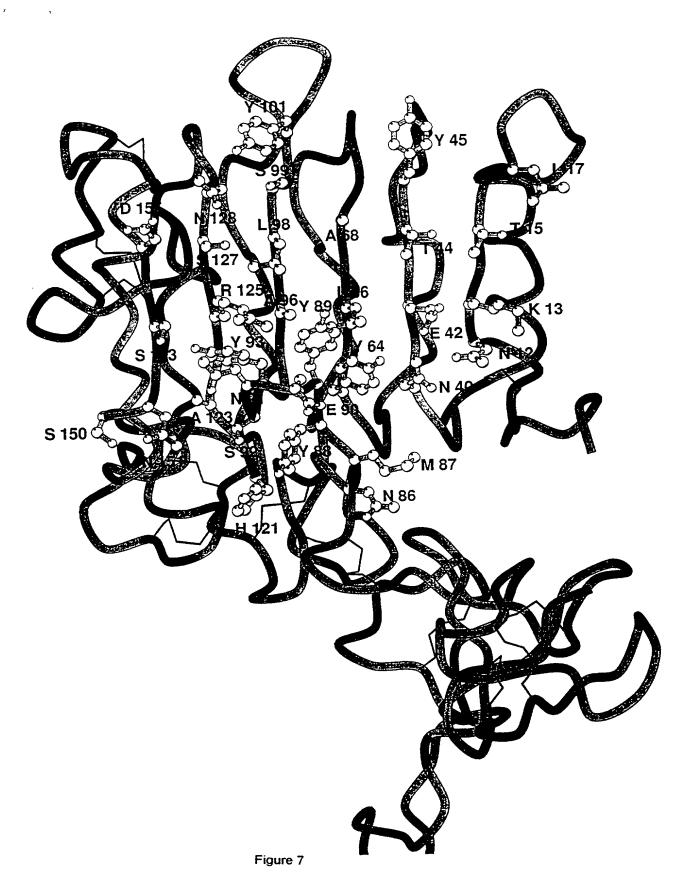
ATOM	2270	CB	GLU	61C	40.943	97.471	63.365	1.00 20.00
ATOM	2271		GLU	610	41.251	98.915	63.761	1.00 20.00
ATOM	2272	CD	GLU	610	42.554	99.307	63.078	1.00 20.00
MOTA	2273	OE1	GLU	610	42.743	98.912	61.897	1.00 20.00
ATOM	2274	OE2	GLU	610		.00.002	63.731	1.00 20.00
ATOM	2275		GLY	611	40.055	94.549	64.118	1.00 20.00
ATOM	2276		GLY	611	40.073	93.186	63.684	1.00 20.00
ATOM	2277		GLY	611	38.677	92.696	63.492	1.00 20.00 1.00 20.00
MOTA	2278	0	GLY	611	38.460	91.787 93.255	62.690 64.254	1.00 20.00
ATOM	2279	N	CYS	612 612	37.717 36.359	92.832	64.099	1.00 20.00
ATOM	2280 2281	CA C	CYS CYS	612	36.021	93.091	62.670	1.00 20.00
ATOM ATOM	2282	0	CYS	612	36.613	93.962	62.033	1.00 20.00
ATOM	2283	CB	CYS	612	35.328	93.660	64.892	1.00 20.00
ATOM	2284	SG	CYS	612	35.756	93.986	66.626	1.00 20.00
ATOM	2285	N	PRO	613	35.097	92.336	62.146	1.00 60.00
MOTA	2286	CA	PRO	613	34.670	92.528	60.790	1.00 60.00
ATOM	2287	С	PRO	613	34.223	93.951	60.698	1.00 60.00
MOTA	2288	0	PRO	613	33.656	94.455	61.666	1.00 60.00 1.00 60.00
MOTA	2289	CB	PRO	613	33.493	91.576	60.603 62.012	1.00 60.00
ATOM	2290	CG	PRO	613	32.874 34.079	91.515 91.688	62.955	1.00 60.00
ATOM	2291	CD	PRO	613 614	34.478	94.629	59.564	1.00 60.00
ATOM	2292 2293	N CA	THR THR	614	34.068	95.997	59.486	1.00 60.00
ATOM ATOM	2294	C	THR	614	33.136	96.141	58.331	1.00 60.00
ATOM	2295	0	THR	614	33.362	95.585	57.258	1.00 60.00
ATOM	2296	СВ	THR	614	35.205	96.950	59.259	1.00 60.00
ATOM	2297	OG1	THR	614	36.143	96.856	60.322	1.00 60.00
ATOM	2298	CG2	THR	614	34.639	98.378	59.179	1.00 60.00
ATOM	2299	N	ASN	615	32.040	96.892	58.544	1.00 60.00
ATOM	2300	ÇA	ASN	615	31.101	97.135	57.494	1.00 60.00
ATOM	2301	C	ASN	615	31.794	97.983	56.478	1.00 60.00 1.00 60.00
ATOM	2302	0	ASN	615	31.612	97.805	55.275 57.973	1.00 60.00 1.00 60.00
ATOM	2303	CB	ASN	615 615	29.831 30.226	97.862 99.212	58.551	1.00 60.00
ATOM	2304 2305	CG OD1	asn Asn	615	31.259	99.344	59.205	1.00 60.00
MOTA MOTA	2305		ASN	615	29.374	100.243	58.309	1.00 60.00
ATOM	2307	N	GLY	616	32.636	98.921	56.953	1.00 60.00
ATOM	2308	CA	GLY	616	33.362	99.779	56.061	1.00 60.00
ATOM	2309	С	GLY	616	32.429	100.789	55.469	1.00 60.00
ATOM	2310	0	GLY	616	32.488	101.060	54.270	1.00 60.00
ATOM	2311	N	PRO	617	31.571	101.360	56.274	1.00 60.00 1.00 60.00
ATOM	2312	CA	PRO	617	30.612 31.360	102.308	55.777 55.104	1.00 60.00
ATOM	2313	0	PRO PRO	617 617	32.523	103.415	55.437	1.00 60.00
ATOM ATOM	2314 2315	CB	PRO	617	29.906	102.846	57.013	1.00 60.00
ATOM	2316	CG	PRO	617	31.027	102.833	58.067	1.00 60.00
ATOM	2317	CD	PRO	617	31.897	101.629	57.667	1.00 60.00
ATOM	2318	N	LYS	618	30.717	104.103	54.145	1.00 60.00
MOTA	2319	CA	LYS	618	31.363	105.186	53.470	1.00 60.00
ATOM	2320	C	LYS	618	31.672	106.227	54.494	1.00 60.00
MOTA	2321	0	LYS	618	32.768	106.782	54.517	1.00 60.00
ATOM	2322	CB	LYS	618		105.844	52.405 51.134	1.00 60.00 1.00 60.00
ATOM	2323	CG	LYS	618	30.300	104.810	50.364	1.00 60.00
ATOM	2324	CD	LYS LYS	618 618		103.977	49.091	1.00 60.00
ATOM ATOM	2325 2326	CE NZ	LYS	618		103.929	48.362	1.00 60.00
ATOM	2327	N	ILE	619		106.503	55.389	1.00 60.00
ATOM	2328	CA	ILE	619		107.501	56.390	1.00 60.00
ATOM	2329	С	ILE	619	32.013	107.002	57.281	1.00 60.00
ATOM	2330	0	ILE	619		105.803	57.518	1.00 60.00
ATOM	2331	CB	ILE	619		107.775	57.253	1.00 60.00
ATOM	2332		1 ILE	619		108.285	56.401	1.00 60.00
ATOM	2333		2 ILE	619		108.744	58.365 55.641	1.00 60.00
ATOM	2334		l ILE	619		109.573	57.744	1.00 60.00
ATOM	2335 2336		PRO PRO	620 620		107.585	58.644	1.00 60.00
ATOM ATOM	2337		PRO	620		107.382	60.013	
ATOM	2338		PRO	620		107.904	60.304	1.00 60.00
ATOM	2339		PRO	620		108.725		1.00 60.00
ATOM	2340		PRO	620	34.143	109.860	57.827	
ATOM	2341		PRO	620		109.120		
ATOM	2342		SER	621		106.617		
ATOM	2343			621		106.395		
ATOM	2344		SER	621 621) 107.684 5 108.746		
ATOM ATOM	2345 2346		SER SER	621 621		105.252		
VI ON	2346		2017		24.201			

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ATOM 2347 OG SER 621 35.659 105.566 63.074 1.00 60.00 ATOM 2348 OXT SER 621 34.446 107.626 64.041 1.00 60.00 TER

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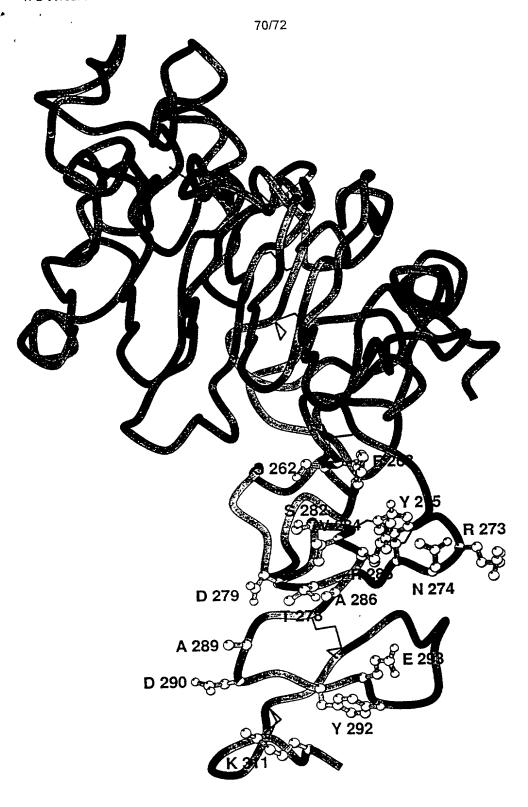


Figure 8

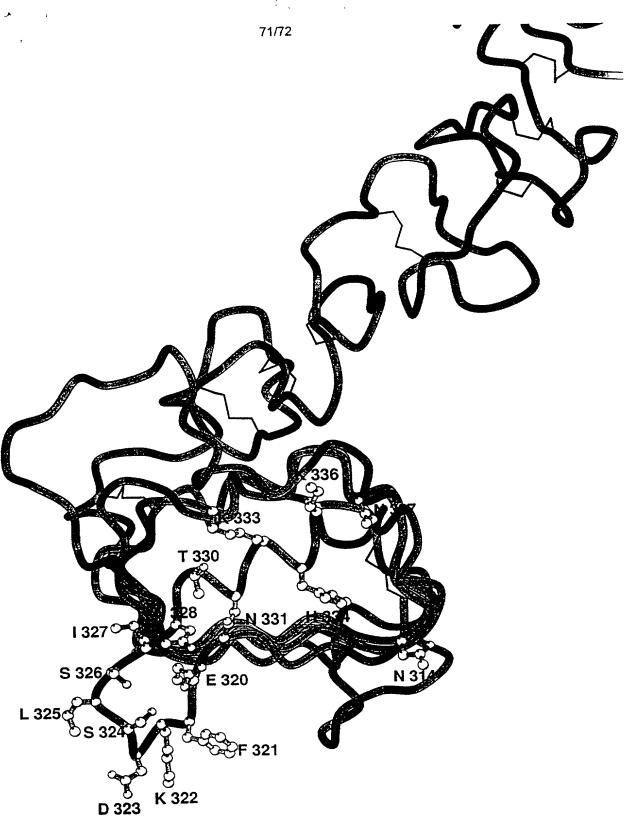


Figure 9

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Figure 10

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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to PCT International Application(s)					Attorney's Docket Number 50179-086
	med inventor, I hereby o				
My residence	e, post office address ar	nd citizenship are as stated be	elow next to my na	amė,	
		dle inventor (if only one name for which a patent is sought o		r an original, first and joint inventor (if p ntitled:	lural names are listed below) of the
METH O D OI	F DESIGNING AGONIS	TS AND ANTAGONISTS TO	EGF RECEPTO	R FAMILY	
the specifical	ition of which:				,
	is attached hereto.				
Ø	was filed as United St	ates application Serial No.	09/701,437		
	on November 29, 2	2000			
	and was amended on	November 29, 2000			(if applicable).
×	was filed as PCT inter	national application Number	PCT/AU99/00	420	
	on <u>May 31, 1999</u>				
	and was amended und	der PCT Article 19 on			(if applicable).
hereby state eremed to ab	e that I have reviewed as bove.	nd understand the contents o	f the above-identi	lied specification, including the claims,	as amended by any amendment
acknowledg	ge the duty to disclose in	iformation which is known to r	ne to be material	to patentability in accordance with Title	37, Code of Federal Regulations,
America listed America listed Legignating a Application(s)	d below and have also in the least one country other of which priority is claim	non 355(a) of any PCT internations and the below any foreign apprinted States of Anticed States of Ant	ational application oplication(s) for pa nerica filed by me	d) or Section 365(b) of any foreign and (s) designating at least one country of tent or inventor's certificate or any PCT on the same subject matter having a fi	er than the United States of
RIOR FORE	EIGN/PCT APPLIGATIO	ON(S) AND ANY PRIORITY (CLAIMS UNDER	35 U.S.C. 119:	
	COUNTRY CT, indicate "PCT")	APPLICATION	NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
ustralia		PP3804		May 29, 1998	⊠Yes □ No
hereby daim	the benefit under 35 U	SC §119(e) of any United Sta	tes provisional ap	plication(s) listed below.	
RIOR PROV	VISIONAL APPLICATIO	ON(S): ≘ation Number			
	уфрис	Trout Marrine)		Filing I	Date



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I hereby daim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those, prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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	U.S. APPLICATIONS			TATUS (Check One)	
U.S. Application Num	ber	U.S. Filing Date	Patented	Pending	Abandoned
PCT APF	LICATIONS DESIGNATING	S THE U.S.			
PCT Application No.	PCT Filing Date	U.S. Serial Numbers Assigned (if any)		(45)	
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POWER OF ATTORNEY: As named inventor, I hereby appoint the following attomey(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Stephen A. Becker, Reg. No. 26,527; John G. Bisbikis, Reg. No. 37,095; Christopher D. Bright, Reg. No. 46,578; Daniel Bucca, Reg. No. 42,358; Kenneth L. Cage, Reg. No. 26,151; Jennifer Chen, Reg. No. 42,404; Bernard P. Codd, Reg. No. 46,429; Thomas A. Corrado, Reg. No. 42,438; Lawrence T. Cullen, Reg. No. 44,489; Paul Devinsky, Reg. No. 28,553; Margaret M. Duncan, Reg. No. 30,879; Ramyar M. Farid, Reg. No. 46,692; Brian E. Ferguson, Reg. No. 36,130; Michael E. Fogarty, Reg. No. 36,139; John R. Fuisz, Reg. No. 37,327; Willem F. Gadiano, Reg. No. 37,135; Keith E. George, Reg. No. 34,111; Malthew V. Grumbling, Reg. No. 44,427; John A. Hankins, Reg. No. 32,029; Joseph Hyosuk Klm, Reg. No. 41,425; Eric J. Kraus, Reg. No. 36,190; Catherine Krupka, Reg. No. 46,227; Jack Q. Lever, Reg. No. 28,149; Raphael V. Lupo, Reg. No. 28,363; Michael A. Messina, Reg. No. 33,424; Dawn L. Palmer, Reg. No. 41,238; Joseph H. Paquin, Jr., Reg. No. 31,647; Scott D. Paul, Reg. No. 42,984; William D. Pegg, Reg. No. 42,983; Robert L. Price, Reg. No. 22,685; Gene Z. Rubinson, Reg. No. 33,351; Joy Ann G. Serauskas, Reg. No. 27,952; Daniel H. Sherr, Reg. No. 46,425; David A. Spenard, Reg. No. 37,449; Arthur J. Steiner, Reg. No. 28,106; David L. Stewart, Reg. No. 37,578; Wesley Strickland, Reg. No. 44,488; Aaron Welsstuch, Reg. No. 41,557; Edward J. Wise, Reg. No. 34,523; Alexander V. Yampolsky, Reg. No. 36,324; and Robert W. Zelnick, Reg. No. 36,978, all of McDermon, Will & Emery.

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further that these statements were made with the knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Date 7th February 2001	Date Feb 09, 2001	Date 9 Feb 2001	

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I hereby declare that all statement made herein of my own knowledge are to				nd belief are believed to be true; and
i heret	by declare that all statement made i	with the knowledge that willful false statemen	is and the like so made are punishable	by fine or imprisonment, or both,
further	that these statements were made to	d States Code, and that such willful false sta	tements may jeonardize the validity of	the application or any patent issuing
		ed States Code, and that such white halot se	minimum indy jeoperate in vining or	
thereo		Signature of Inventor 205:	Signature of Invent	for 206:
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Date	16 Feb 2001	13/8/18/	20/	12
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